ning Journal RAILWAY AND COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 741 .-- Vol. XIX.

LONDON, SATURDAY, NOVEMBER 3, 1849.

PRICE 6D.

MESSRS. OATES & PERRENS have been honoured with instructions from the Directors of the Galvanteed from Company to OFFER FOR ALL, BY PUBLIC AUCTION unless previously disposed of by private contract, of which due notice will be given, the well-known and valuable COAL and IRON-WORKS, known as the COREWN'S HALL, DARLASTON GREEN, and TILED HOUSE IRON-WORKS and COLLIERIES, straste at KINGSWINFORD, mear Dudley.

Also, the PHENIX IRON FOUNDRY and WORKS, situate in the same locality.

Full particulars will be given to it failure Advertisespart.

GLAMORGANSHIRE, SOUTH WALES.

R. H. M. PARTRIDGE will SELL, BY AUCTION, at the Angel Hotel, CABDIFF, on Wednesday, the 7th of November, 1849, at two the real contract, of which due motics will

Lord J. All that well-known COLLERY, called the DARREUDDU, situate nearly diway between Meritayr and Card F., with all the STOCK and PLANT appertaining screen, including the inclined plane, which connects it with the Tail Vale Ballway. This let is held principally under those from fir Charles Storgun, Bart., for a term, of the let is pear are unexpired, and 200 serves, or thereshouts, unworked.

Adjoining this colliery is a large tract of coal, which caunot be advantageously worked results are their organic.

LOT 2.—All that recently-opened COLLIERY, known as the RHONDDA COLLIERY make on the side of the fillounds branch of the Taff Vale Railway, with all the STOCK of PLANT, including a newly-proceed HROHLPERSCURE EMOLIEE, so-luch cyling, 6-feet streke, and FIVE WORKHEN'S COTTAGES.

The whole of the three veins, or seams, of coal, called the Havod, Cymmar, and Cofy's celebrated seam of coal—so much in reputie for making coke for locamotive engines
are held under lease from Messers. Edwards and Gething, for a term, of which 95 years
a macultred.

or the salouns.

The first state of the control of

R. GEO. TURTON, STROUD, will SELL, BY AUCTION

CECK IN the atternoon, the

CEFNEITHRIM COLLIERY,

r CLYDACH. The coal is excellent free-burning coal, and at far steam purworked by level, and a good transroad runs from the colliery to the Swansea

r which it has to pass less than 5 willes. The colliery is in excellent working
and the purchaser can have the PLANT belonging to the same at a valuation,

dealire, is beld under a base for 31 years, renewable during the life of the lessor, ow sleeping rent and royalty.

o, the POITERY WHARI, attuate in SWANSEA, held under a lease for 99 years, see lives (one of which only is surviving) should so long live, free from rent. The ving life in the lease is insured in the sum of £300, the annual premium on which 0 list, and the policy will be included in this lot.

further particulars apply to

OR TH WALES.—VALUABLE SLATE QUARRIES
FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, those VALUABLE
FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, those VALUABLE
RRIES, salied the OAMBRIAN SLATE QUARRIES, situate in the neighbourhood
FESTINION, in the country of Merioneth. They have for some time been in full opetion, and producing a maternal of first-rate quality, at a contributive triffing cost,
in the side of a mountain, water free, and not having more than from 10 to 18 feet
saring.—The above property is well worth the attention of capitalits, both from its
sities and standility of producing, at a slight additional certary, an almost unlimited
antity of slates.—For particulary apply to
Mr. MICHAEL FORSTER, Mining Esquieer, Comway, North Wales
N.S.—These quarries are sufficiently opened out to develope both the quality of the
tes and the capability of the extension of the works.

Jonway, November 1, 1848.

E DISPOSED OF, the MANUFACTURING PRE-ES, BUNNESS, and CONNECTION (which is of a first-rate character), of a sheet MACHINEHT GREAGE MAKER, he GHARES in LEAD MINES in NORTH WALES—the remainder fong

by a most respectable supprietary.

•, several FATENT RIGHTS, PREEHOLD ESTATES, LEASES of FOUNDRIES RIGHTS, PROPERTY RIGHTS, PREEFONE QUARRY, and COAL and REONSTONE SS; SHARES in a well-known SLATE QUARRY, the PART, or the WHOLE, of a strabilished GAS WORK, & STEAM-ENGINES and MACHINERY of all descriptions, particulary apply to James Boydell, land, mine, and machinery valuer, and agent, 4, Threadneadle-street, London.

NO. ENGINEERS, IRON STEAM-SHIP BUILDERS, MANUFACTURERS, & OTHERS.

EXTENSIVE MANUFACTURING PREMISES, TO BE
SOLD, or LET ON LEASE, with or without STEAM-POWER and the VALUABLE
ACHINERY. The Promises are situate at BLACKWALL having a waterside frontage
of about 250 feet near the function of the River Lea with the Themse, possessing canaliilles for building iron-vessels, apwards of 200 tons burthen. The BUILDINGS have
mostly been recredusiting a few years, at a cost of many thousand nounds; a wharf wall
has been constructed at a great expense; a deep stratum of chalk has also been placed
on the bed of the river, to strond additional security to vessels lying alongside; and the
continuous of the strand water light of the strain of chalk has also been placed
on the bed of the river, to strond additional security to vessels lying alongside; and the
continuous of the strain of o engineers, iron steam-ship builders, manufacturers, & others.

And of Measure. Fuller and Horsey, Ellipse-street, London.

STRUVE'S PATENT MINE VENTILATOR.

Cost—4150.

TO COLLIERY PROPRIETORS.

Quantity of air passed through a Mine almost unlimited, to the extent of 200,000 calle.

D. H. H. Drake TO COLLIERY PROPRIETORS. t per minute, if necessary—nepending on COST of an APPARATUS to produce a MR HUNDHED and FIFTY POUNDS, exc ation would be sufficient for a mine workin

has been at work for upwards of six months at the Eaglesbing under a rarefaction of 2½ to 3 inches of water, which it yo of furnesc vanishing, when the shafts are shallow and titeal to rarify a mine by this ventilator to the extent of 2½.

of mercury.
IS will be GHANTED on application to
Mr. WILLIAM PRICE STRUVE, Swamses,
Civil Engineer and Mineral Scaveros.

TO THE OWNERS OF COLLIERIES, MINES, PLANTATIONS, SAW-MILLS, &c.

IMPROVED CIRCULAR SAWS, MILL-SAWS, FILES,
Machine Irons, and Curting Knives, Steel in Bilater, Bar, Cast, Shear, and Drin Steel, Springs
or Railways and Common Roads, Iron Weathers, Bolts, Hammers, &c., on the most
PERFECT and ECONOMICAL PRINCIPLES, MANUFACTURED with DISPATCH, by

BLAKE AND PARKIN,

OANS ON DEBENTURES.—The CALEDONIAN RAIL-WAY COMPANY are prepared to RECEIVE TENDERS OF LOANS, in sum less than £500.—Applications to be made or addressed to this office. By order, D. RANKINE, Tres

WMBRAIN PATENT IRON REFINERY—The PROPRIETORS of IRON PORGES and MILIS are respectfully INVITED to MAKE TRIAL of Mr. BLEWITT'S REFINED IRON, or METAL, PREPARED by a NEW PATENT PROCESS, whereby the IRON is completely FREED from the IMPURITIES CONTRACTED in the BLAST-FURNACE, and, by indictons mixtures, rendered applicable to every kind of manufactors. Heretofror, the metal resulty soil in the market has been produced from he worst pigs, acraps, and recases of some particular blast-furnace, or set of furnaces, without any mixture, or any regard to quality, or the purpose for which it might be required. The PATENT METAL is PREPARED ON SYSTEM, and TO ORDER, for any of the following purposes:—

1. FOR BOLLER and TANN-PLATES.

quired. The FAIENT SELAL IS FREFARED ON SPIEM, and TO ORDER, for any of the following purposes:—

1. For BOILER and TANK-FLATES.
2. For TIN-PLATES, commonly called COKE-PLATES.
3. For STRONG CABLE BOLTS, RIVET, and ANGLE IRON.
4. This COMPOUND PUDDLED, beat under the hammer into a bloom, reheated, and rolled into a 5 or \$\frac{1}{2}\$-linch bar, makes TOPS and BOTTOMS for FLANCH and OTHER RAILS, of very superior quality, and sitended with less waste than any other kind of iron used for that purpose. It is also well adapted for asil-rods, horse-shees, and for other ordinary uses of the blacksmith.

The DATENT METRY that is marked with a control and the initials \$\frac{1}{2}\$ P. I. B. 2.

The PATENT METAL is marked with a squirrel, and the initials "R. J. B.," and is to be had only at the "Cwmbrain Iron-Werks," near Newport, Monmouthshire

Shortly will be published, in Lithograph,

A SYNOPSIS OF THE CORNWALL TICKETINGS

FOR COPPER ORES, from 1890 to the present time; together with

A SYNOPSIS OF THE SWANSEA TECKETINGS.

From 1815 to the sume period; which contains the following information—vis.: the
Standard, Produce, Price, Quantity of Copper Ores Sold, Amount of Money realised, and
the Quantity of Fine Copper produced; with respective finetruations for each year, as
well as for every six years; exhibiting also the totals and averages for the whole period
collectively.

The above information will be contained ou a large sheet of drawing paper, on which
the Standard in each year will be delineated by horizontal lines of various colours, poneting to the particulars thereof; the said lines having a scale affixed to them; for the parpage of showing the continued RISE and FALL annually of the STANDARD.

These SYNOPES—as is the case with the original—will be "Inscribed, by parmission, to Joarn' Phomas Taxyrax, Esq., of Place, Fowey, the greatest employer of miners
and other labourers in the West of England."

The original sheet was exhibited at the resent meeting of the Royal Cornwall Polytechnic Society at Falmonth, where it was regarded with much interest by gentlemen comnected with mining and smelting pursuits. The compilation was swanled with a medial,
and was thus favourably noticed in the Judgest Report:—"This paper, in the judgment
of the committee, contains a very valuable series of deductions from published ticketing
papers, very convaniently arranged for reference."

Mr. WILLIAM POLKINGHORNE, Fowey Consols, near St. Anstell;
or at the office of the Mining Journant, No. 26, Fleet-street, London.

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N.B.—Accounts of the peared in the Cornwall Ra Conservative of 4th October Journal, &c. &c.

Contract for Coals.

NOTICE IS HEREBY GIVEN, that the Administration of the General Post-office in France having POSTPONED the several PERIODS for the DELIVERY of COALS, advertised to be contracted for on the 19th of October, the changes and alterations in said periods may be ascertained at the office of the Consulgence of France, 47, King William-street, City.

TOR SALE, -A PORTABLE STEAM ENGINE, of 25-horse power, particularly adapted for Driving Machinery in the most accessenced ner. It is on the principle of Woolf (two cylinders), 4-feet stroke, fly-wheel, 15-fee meter; fitted in the best possible meaner in a strong handsome cast-iron frame what is termed a Bright Engine, and now just completed at the manufactory of M Harrey and Co., of Hayle Foundry, Cornwall, where it may be seen, or further palars may be obtained on application.

They have also just completed, and FOR SALE, a PUMPING ENGINE, ng, on the high-pressure expansive principle. The steam cylinder 30-incl. Hayle Foundry, Oct. 24, 1849.

ON SALE,—HAMMERED CHARCOAL BACKBARROW BAR-IRON, at reduced prices.—Apply to MATHER, LEDWARD, & CO., Liverpool.

WANTED,—A competent FOREMAN of SMITHS—one should be well versed in all practical forgings, and capable of taking charge of one or more Steam Hammers, and probably from 100 to 200 workmen.—Applications (post-patid) to be addressed to "F. H. and Co.," London Works, Birmigham, stating terms, and giving particulars of previous engagements and references.

MINERAL ENGINEER WANTED: he must be a goo practical man, as he will have to take the entire charge of a going colliery in a north; considerable experience and undeniable character indiapensable.—Apply by letter till particulars, to Mr. Direks, agent, 33, Moorgate-street, City.

GENTLEMAN, connected with MINING and SMELTING, wishes to meet with a PARTNER, with the ultimate view of retiring from busing for which satisfactory reasons could be given. To any party with a small capitat those would be worthy of notice.—Address, in the first place (post-paid), to "C. B." of the Mining Journal, 26, Fleet-street, London.

O ENGINEERS, IRONFOUNDERS, AND CAPITALISTS A GENTLEMAN, having secured a PATENT for an important INVENTION with IRONWORK and RAILWAYS, wishes to DISPOSE of the WHOLE, o connected with INEREST in the same.—The invention can be seen in use to same ext and full particulars obtained, on application (by letter) to "C. E.," care of Mr. Wis 5, Ingram-court, Fencharch-street, City.

TO MINE ADVENTURERS.—The Undersigned is ready to enter into CONTRACTS for SUPPLY of COAL, TIMBER, and the various MATERIALS USED In WORKING MINES in CORNWALL and DEVON, on the lowest terms, and according to such arrangements as may be agreed upon.—Letters at dressed as under will be attended to, and prices given. THOMAS TREGASKING Basset What, Furna, near Trues.

WANTED TO PURCHASE—SHARES in South Frances
North Rosker, Trelawny, Trehane, South Basset, Devon Great Consols, Tre
viskey, Tincroft, Bedford, Stray Park and Camborne Vean, East Buller, and Cook
Ritchen Mines.—Apply to Mesers.
Mining Offices, 1, St. Michael-alley, Cornhill, London.

N.B.—Messrs. W. & C. are always in a position to treat for the Sale or Purch Shares in all the best dividend Mines in Cornwall, Devon, and Walcs.

MINING PROPERTY.—Mr. JAMES HERRON, MINE AGENT, 33, CLEMENTS-LANE, LOMBARD-STREET, has received insit tions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular dividends, yielding to the purchaser from 174 to 25 per cent. upon his outlay. He is also in a ption to transact business in the following—viz. Condurrow, West Providence, Welfingt Troviskey, Tremaine, Wheal Alfred, East Rose, North Roskear, Tralawny, Stray Pawest Caradon, Traleight, Tincroft, Bedford, South Tamer, South Wheal Frances, Airs St. John del Rey, and United Mexican Mines.

MR. C. S. RICHARDSON wishes to meet with a FEW GENTLEMENTO JOIN him to EXTEND the WORKINGS of a RICH TIN MINE, now paying a profit of above 25 per cent.—Specimens of the finest quality are to be seen at the office, 10, 00d Brond-street, with Plans, Reports, Leases, &c.—2550 part, or share, is all that will be required—Mr. R. will provide the additional capital

MR. T. A. READWIN, MINING OFFICES, WINCHESTER-BUILDINGS, OLD REGAD-STREET, LONDON.

R. R. TRIPP, MINING AGENT and SHAREBROKER BEDFORD CHAMBERS, BAMPFYLDE-STREET, EXETER.

MR. H. B. RYE, has BUSINESS to transact, both as BUYER and SELLER in all the leading MINES in Cornwall, Devon, and Wales.

For particulars, apply at his office, 77, Old Broad-street, City.

JAMES LANE, MINING SHARE DEALER

ASTURIAN MINING COMPANY.—The Board of Directors and Committee of Liquidation hereby give Notice, that they have mades further pital stock of the company, and that such call is PAYABLE, for holders of Spanish shares, at the bank of Mesers. H. O'Shea and Co., Madrid; and for all other shares, at the London and County Bank, Lombard-street, London, on the 16th day of November mext. That shareholders who shall pay one-half of the said call on or before the said lefth day of November, will be allowed one month for the payment of the other half of the said call; one rest, discount will be allowed on one-payment.

Offices of the Company, 9, Austinfriare, London; Sept. 28, 1849

A STURIAN MINING COMPANY—IN LIQUIDATI

—Notice is hereby given, that the REAL ESTATE, the CONCESSION
MINES, and the WORKS of this COMPANY, at Miercs del Camino, Santo Firme,
La Eugenia, situate in the Province of OVYEDO and Principality of the ASTURIA
SPAIN, have been ordered by the Board of Directors and Liquidators 70 BE SI
UNDER TENDER, such Tenders also to include the PURCHASE, by VALUATIO
the usual manner, of the STOOK in band, of all kinds, IMPLEMENTS and ARTIR
used in the various departments of manufacture at the said works. The Tenders subject to the approval of a General Meeting of the company, to which is reserved
right of accepting the offer which may appear most beneficial to the shareholders of
said company.
A description of the property, and the conditions of said, will be ready for impact.
Madrid, with Messra. Hy. O'Shea and Co., bankers; at Mierce del Camino, with
mompany's office in London, on and after the 10th day of November next. All ser
must be sent into the principal office of the company, 9, Austriats Wickedon, on or
fore the 15th day of December next, addressed to "The Directors and Liquidators of
Asturian Mining Company," to whom also should be addressed all enquiries respec-STURIAN MINING COMPANY—IN LIQUIDATION

The works may be viewed on application to Mr. George Lambley, the sup at Micres del Camino, in the Asturias.

K. MACKENZIE, S.

CAMBORNE CONSOLS—CAUTION.—Sharebrokers and others are hereby reminded, that the THIRD and LAST CALL upon the SHARES in this company was payable on the 25th day of September last; and that, therefore, such of the share certificates which may still be in circulation, without bearing a receipt for the full amount (Seven Founds) per share, should not be negotiated.

29, Foultry, October 31, 1849.

R. L. T. VON USTER, Secretary.

LYNVI IRON COMPANY.—Notice is hereby given, that a GENERAL MEETING of the shareholders of this company will be HELD at their offices, 16, Old Jewry Chambers, on Friday, the 9th day of November next, at One o'clock precisely.

By order of the board, F. W. GIBBON, Secretary London, October 31, 1849.

DUISBURG IRON-WORKS AND MINES,

Managed in England according to the principles of the "Cost-book System," and in

Prussia as a Société en Communicative, under laws fimiting the Hability of the shareholders
to their personal subscription.

Company's Offices, 28, Moorgate-streat, City.

A SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFACTORIES, that he still continues to CONDUCT ASSAYS and ANALYSES of all PEODUCTS, metallurgical and manufacturing, at his LABORATORY,

23, HAWLEY ROAD, KENTISH TOWN, LONDON,
32, Secommunications are to be forwarded.—Instruction in all branches of

CEWERAGE OF LONDON.—The ATTENTION of the COMMISSIONERS appointed to determine upon the MOST EFFICIENT MATERIAL for the CONSTRUCTION of the SEWERS OF LONDON, is particularly directed to the ASPHALTE OF SEYSEL, which more than any other material is applicable to the CONSTRUCTING and INTERNAL COATING of BRICK CULVERTS and OTHER CHANNELS for DRAINAGE.

The experiments made by the Royal Artillery on the embrasures of Plymonth Citadel, constructed of Seymel Applied Brick Culverts and other and the Constructed of Seymel Applied Brick Culverts and other and the Companies of Seymel Applied to the Constructed of Seymel Applied to the Companies of the Grant of Creating of the Companies of

Under the PATRONAGE OF ROYALTY, and the AUTHORITY of the FACULTY.

EATING'S COUGH LOZENGES.—Upwards of 40 years' experience has fully confirmed the superior reputation of these LOZENGES, in the care of Ashima, Winter Cough, Hoarnenes, Shortness of Breath, and other pulmonary maladies. They have deservedly obtained the high patronage of their Majestics the King of Hanover; very many also of the Nobility and Ciergy, and of the Public generally, use them, under the recommendation of some of the most eminent of the Faculty. They have immediate influence over the following cases:—Asthmatic and Consumptive Complaints, Coughs, Shortness of Breath, Hourseness, &c. Propared and sold in boxes, its 11d, and time, 2. 9d., 4s. 6d, and 10s. 6d. each, by Thomas Keating, chemist, &c., No. 79, St. Paul's Churchyard, London, and retail by all druggists and patent medicine renders in the kingdom.

**Copy of a Letter from Colonel House, ref. (the well known Author on "Guns and Shooting.")

Longparish House, near Whitchurch, Hants, October 21, 1846.

Str.,—I cannot resist informing you of the extraordinary effect that I have experienced by taking only a few of your losenges. I had a cough for several weeks, that defied all that had been prescribed for me, and yet I got completely rid of it by taking about half a mall box of your lorenges, which I find are the only ones that relieve the cough without deranging the stomach or digestive organs.

I am, Sir, your humble servant,

P. HAWKER.

TO Mr. Keating, 79, St. Paul's COMPLAINTS.—Thomsands. the PATRONAGE OF ROYALTY, and the AUTHORITY of the FACULTY.

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We feel no hesitation in saying, that there is no member of society by whom the be

&c.—By J. L. CURTIS, consulting surgeon, 15, Albermuric-street, Piccadilly, London.

We feel no hesitation in saying, that there is no member of society by whom the book will not be found nestal—whether such person hold the relation of a parent, preceptor, or a clergyman.—Sun, Evening Paper.

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Transactions of Scientific Bodies.

INSTITUTION OF MECHANICAL ENGINEERS.

A general meeting of members, for the reception of papers, and the no-mination of officers and council, was held in the Theatre of the Philosophical Institution, Birmingham, on Wednesday week, Robert Stephen-son, Esq., M.P., in the chair. The first paper read was—

ON THE ECONOMY OF RAILWAY TRANSIT.

ON THE ECONOMY OF RAILWAY TRANSIT.

BY MR. JAMES SANUEL, OF THE EASTERN COUNTIES RAILWAY.

The object of the paper was to show the necessity of working branch lines with lighter and less expensive trains and locomouves than are at present in use, with a view to diminish first cost, consumption of coke, and deterioration of permanent way.

He showed that on many occasions the weight of passengers and luggage bears a proportion to the tonnage employed to convey it as 1 to 26; and to obviate this unnecessary employment of power, and destruction of way, he proposes to construct light locomotives, of about ten tons, which, fixed to a carriage large enough to contain the average number of passengers on a branch line, would form one carriage, there being no tender, and the tank carried under the body of the passengers' carriage. He considered that such an adaptation would also be desirable in express trains on trunk lines, where great speed was demanded, and the weight carried was not great. The paper was illustrated by drawings of the "Enfield" engine, constructed under the direction of Mr. Samuel, and by an elaborate series of calculations and results.

The paper was illustrated by drawings of the "Enined Cigine, construction under the direction of Mr. Samuel, and by an elaborate series of calculations and results.

Mr. M'Connell, gave nuch credit to Mr. Samuel for the introduction of this brauch traffic carriage. If managers of railways could always calculate the number of passengers to be carried, he (Mr. M'Connell) could conceive that a great economy might be effected, even under the present system. But this was impossible. How far, under these circumstances, Mr. Samuel's carriage might become useful he was not prepared to say.

The President considered that they were much indebted to Mr. Samuel for his excellent paper, and he regretted that many interested in the economical working of railways had absented themselves from that meeting. The subject of economical transit had, of course, occupied his attention, and he must say that, although he considered the suggestion of Mr. Samuel, so far as certain branch lines were concerned, was entitled to the consideration of all railway companies, yet he (the President) did not agree with Mr. Samuel to the full extent. On small local lines—such as those from London to Greenwich, and London to Blackwall—such carriages would be very valuable in lessening the expense of working, but he could not agree in thinking that for express purposes, or any other, such carriages would or should become popular on main lines. He could not agree with Mr. Samuel, also, with reference to the necessity of fixing the engine to the carriage, for the purpose of giving it steadiness. It appeared to be like rivetting harness to a horse. There was no mechanical necessity for it. He would advise Mr. Samuel not to overstrain his principle by endeavouring to apply to trunk lines what would be manifestly beneficial to branches. The public expected certain comforts in railway travelling, and no system that could be devised would reconcile passengers to be packed together like fish. He (the President) felt that, occupying as he did a position in th

ON RAILWAY AXLES.

the weight of engines, had been practically wrong.—The second paper was ON RAILWAY AXLES.

BY MR. J. E. MYONNELL.

When the railway system was first introduced into this country, the question of strength of materials for constructing the new stock was (it is to be presumed) materially influenced by the amount of experience derived from the vehicles which had previously been in use for the conveyance of traffic. As the new system became extended and improved in all its arrangements, and the facilities which it possessed for conveying greater loads at higher speeds were gradually developed, the working stock was necessarily changed from time to time in conformity with the greater demands for convenience and stability. Improvements in almost overy point have been carried out, until we have now in operation the railway steck, generally speaking, in an excellent condition for the purpose to which it is applied It is remarkable that, nowithstanding the importance of proportion and quality as first elements in considering the strength of the materials of which railway moving stock is composed, no rule, generally applicable for even the main features of this great system of machinery, has been established. Without attempting to embrace the whole subject, athough one of great importance to proprietors of railways and the public generally, I conceive it is proper, in this place, to express my strong conviction that the general question of the strength and quality of those materials justly proportioned to the strains to which they are subject, and bearing reference to accidents from collision, faults of road, deterioration from a variety of causes, &c., must eventually be treated with great attention and consideration, and, in order to insure safety to life and property for all who use railways, as well as the greatest possible economy for the profit of those who have combarked their capital in their construction, I believe it will be found essential to have some regulations founded upon the joint experience of those who

of manufacture, to be of the most approved description.

In order to arrive at a knowledge of the best form and dimensions of axles, we,have first to ascertain the load and friction to which they are to be exposed; and, secondly, to estimate, as nearly as possible, the strains to which they will be subject whilst in motion. Supposing a waggon or carriage to be constantly in a state of rest, it would, of course, then only be necessary to consider the axle as a beam or girder, sustaining a load of five tons upon the two journals, the points of support being the wheels resting upon the rails, the middle portion of the axle being of sufficient strength to sustain the wheel or prop in its perpendicular position. We then require to find out the proportionate strength, so that each section of this beam or girder shall only be sufficiently strong to resist the strain or load to which it is then subject.

It is ascertained, by an approximate calculation, that a journal of 1-128 inch diameter is not capable of sustaining a heavier lode, when in a state of rest, than 2½ tons, or 5600 lbs.; and allowing, in practice, that the waggon or carriago axle is made ten times the breaking strength, the diameter of the journal would be, adopting the same calculation, 243 inches. In these calculations the strength alone is considered, but we have also to take into account the question of friction, and likewise the tendency to abrasion. With our present means of information no accurate data are available for

determining the best proportion of journal or bearing seconding to the weight it has to bear, or the velocity at which it is required to more. As a cales particularly the length of hearing, depending to a certain extent, upon the construction and arrangement of the engine; as a general rule the hearing is not a propertion, according to our general his hearing in our propertion, according to our general his hearing all not the propertion, according to our general his hearing the contract of the political parts according to our general his hearing the propertion, according to our general his hearing the propertion of t

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be 471 inches to 19-les this slow, then, dividing the axie into four equal spaces to the centre, the portionate breaking force at each point would be as follows:—As the first, 94 381 lits., relative difficient, 479 in., if at eacond 80.697 be, relative diameter, 473 in.; statird, G.7518 lits., relative difficient, 479 in. if a feed of the properties will apply where neoriculmistances exist of amploying the eartie of the axie for transmission of nover. The expet axies of become tive engaged action to the treated by any of the rules applicable to straight axies, asso not experience would seem to prove that, even with the greatest care in manufacturing, these axies are subject to a rapid deterioration, dwing to the vibration and lar which operates with meassed severity, of account of their postular form. So dertain and regular is the fracture, at the corner of the examk from this cause, that we can almost predict in some chases of engines the manufact of miles that can be run before signs of tracture are visible; a certain amount of injury can be prevented by parting counterbalance weights apposite to each rans, which lessons the vibration very considerably. It is right to observe in this place, that to some extent the injury to all axies may be increased; if the wheels in which they are fixed are not properly baluece, and I have no doubt that a greas portion of the constant ribration to which they are ambject may be traced to ble knocking action of the wheel upon the real, owing a warm of halance. The quastion of deferioration of axies arising from various causes, which I have enumerated, is a very important one to all railway companies; that some change in the nature of the root does take place is well-established fact; and the investigation of this is most deserving of carcal attention.

I ballove it will be found that the change from the florous to the fact on this branch of the analyset; but so valuable is the clear medestanding of the infar the this branch of the subject, and to afford time to consideration

to Mr. M Connell.

The third and last paper fådd was "On Nasmyth's Patent Girdens and Bireproof Floors," contributed by Mr. S. Lloyd, of Wednesbury. The paper was
illustrated by drawings and models. A discussion followed the reading of the
paper, and after a vote of thanks to the President, the meeting adjourned.

OPENING OF THE COAL EXCHANGE.

On Tuesday last, H.R.H. Prince Albert, accompanied by the Prince of Wales and the Princess Repail, went by water to the city, to open the new Coal Exchange. The event, which had for some time past beer looked forward to with great interest by the inhabitants of the metropolis, passed off in Wales and the Princes Royal, wents by water to the city, to open the new Configuration of the Princes Loyal which had for some time past beer tooked forward to with great interest by the inhabitants of the metropolis, passed off in the most satisfactory sannors, and no unfortunate circumstance took place to mar the happiness which an occasion of the kind naturally diffuses. In this uncertain climate so much of the effect, of public spectacles depend upon the propitionsness of the kind, that the first acknowledgments of anarrative of the kind are due to the weather. The day was suggificant, the sky unclouded, and it is not, often that an October sun has shone so brightly and cheerily. Then the inhabitants of the metropolis were in the best of humoure, prepared to enjoy the speciacle which they had been promised, and thoroughly disposed to do humas by the presence to a Royal waver family, and is associated, perhaps, more intimately than any other product of mother earth, with "the minimate and dear desights" of family and home. It is tree we now it some gradue for blackening the walls of our deligous, for darkening an atmosphere which is seldom, sinder the most favourable circumstances, very transparent, and for desireying, in a variety of ways, those forms and attributes of beauty with which other great cities abound, but the Londoner, is perpetually sacrifing affect to substantial comfort, and he reconciles himself, with admirable composure, to substantial comfort, and he reconciles himself, with admirable composure, to all the disadvantages which coal-barring bears along with it to the actropolis, for the sake of the benefits which it confers on himself personally. Not the loss it singular feature in the Royal visit, which has jout tuken place, it that is should have been made by the cives, which, more than any place, it that is should have been made by the cives, which, has jout tuken place, it is a first induced to the search of the himperature of the Royal palaces is preserved, he could not have perfect bef

all LWAY AND COMMERCIAE GAZETTE.

The City dield, shows, and other orannessed derives, are regressed in the centre. The whole of flose pieces were, only a few menths since, sither in the zero in the source of a two ditys by a now method of easoning, known diverse the source of a two ditys by a now method of easoning, known diverse the source of a two ditys by a now method of easoning, known diverse the source of a two ditys by a now method of easoning, known diverse the contract of the con sons there are than showled caim for a British Coal Exchatic Coh Incompared to a floyed inautguration; but, in truth, in no time or country has the matched of faul, ever been so intimately and so variously associated with an atomal prosperity and glory as in the present era of the British compire. If not the single element of our mercantile and political supplicity, coal is at least absolutely easential; and could we suppose such an event as the calculation of the beds, it would be the final and unter cattery plus of the change of the beds, it would be the final and unter cattery plus of the control of the property of the control of the change of the change of the change of the change of the property of the change of the

The first mention of coal in the history of our nation appears to have been as early as the middle of the ninth century; but the article was cer-tainly known, and applied to many useful purposes, a.D. 1100. In 1239, Henry III. granted to the good men of Newcastle the privilege of digging coals, although it is less than 300 years since they became in general use coals, atthough it is test than 300 years since they became in general use, as fuel, in London; at which place, on its first introduction, one or two ships were sufficient for the whole trade. It appears by a charter of Edward II, that the coal of Derbyshire was known, and in use, especially in London, although its introduction was greatly retarded by the prejudice existing against such thele as a substitute for wood in cities, as seen by a preclamation of the first Edward, and subsequently in the reign of Elizabeth, in which we find that the burning of stone-coal was prohibited during

ployed in the carrying department of the London coal trade.

Fourer of Dran Railway.—A meeting of parties interested in the establishment of an improved system of railways to develope the mineral resources of the Forest of Dean, has been held at Glocester. Mr. Sopwith, C.E., took the chair, and stated that he had been appointed by the Commissioners of Woods and Forests to inspect the district, and that the present meeting was convened for the purpose of ascertaining the general opinion of the parties interested, and particularly those who had memorialized the Commissioners of Woods and Forests on the subject of railway conveyance for the minerals of the district. He believed it was quite clear to all that the railways at present in the district were inefficient. He then proceeded to read a report he had made nine years ago to the Commissioners of Woods and Forests, on the trainroads of the Forest, showing the high rates charged to the coalowners, and the great disadvantages they laboured under in consequence thereof. The cost of conveying coal on the Forest tramroads varied from 1s. 8d. to 3s. 8d. per ton for certain distances, while the cost on the modern railroads in the north for similar distances, while the cost on the modern railroads in the north for similar distances, while the cost on the modern railroads in the north for similar distances amounted to only 8d. or 9d. per ton. Any plan which met with the support of the greatest number of the coal and iron owners would receive his first attention, and he would endeavour to promote the object they had in view. Mr. A. Goold said; that a plan for opening the Forest of Dean had been proposed, which seemed to meet with general approval. It consisted, in the first instance, of a communication with the River Severn, either at Purton or Brimps Pill, from Fox's-bridge to the Grange as an outlet to the eastern country. He said it was high time that they should have some improved communication, otherwise all their property would be ruined. At Cheltenham persons were

to Cheltenham at a cost of 3a 6d. per ton, instead of 3s. Zd. per ton, the amount charged by the present mode of conveyance.

THE BRITANIA BRIDGE.—An important process, amongst the other interesting stages of this great structure, is now being carried out, and has been proceeding successfully since the raising of the first tube to 3 feet above its permanent level of 102 feet above sea -mark on the 15th Oct. On its completion, is the course of a few days, the immense mass of metal will again be let down 3 feet, and fixed into its abiding place within the towers. The operation has for its object the joining the main tube securely on to the land tube in the centre of the great tower on the Anglesea side of the straits, and an completing one-half of the passage across. In effecting this it is found necessary to provide for the expansion and contraction of sor great a mass of metal as that of 2000 tons, which from changes of temperature, are necessarily very considerable, the extreme variation in the length of one of the tubes between summer and winter, being nearly 12 inches. To make provision, therefore, for this constant alteration in length, which would otherwise endanger the stability of the whole structure, the middle of the great tubes are fixed in the central Britannia tower, in such a manner that they cannot move, but on either side where the tubes unites with those in the land towers, proceeding out of the latter on to the abutments on shore, they travel on moveable rollers of cast iron 6 inches in diameter, a portion of the weight being also supported at the top on balls of hard gun metal of the same size, working in channelled beams, and acting in the same way as the rollers. Besides these ancillaries, which are now being placed, and can which the tube was to be let down at the extreme ends, where the rails intended for the trains, in the tube, are joined to those on land, contrivances are used to prevent a gap from being formed by the contraction, which might otherwise endanger the safety of the trains. sec., be favourable, it will take place before the close of this month, but if not, at the beginning of December. No such delay, unless contingencies occur, will be allowed to interfere in the final operations, as all the hydraulic apparatus will be brought into action for the lifting of the second tube, as soon as it is floated to the foot of the piers, so as not to interfere with the navigation of the Straits, but at once give the railway a route over them.

OPENING OF THE SHREWSBURY AND BHEMINGHAM RAILWAY.—It was intended by the directors to open this line to Wolverhampton on the 1st inst, but in consequence of their being of opinion that some portions were not exactly in what they considered a proper state, they have deferred it till the 12th Capt. Wynn, the Government inspector, was along the line a day or two ago, and reported favourably. The tunnel at Oakengatea is considered now quite asie, having been thoroughly tested.

RHEUMATISM EFFECTUALLY CURED BY HOLLOWAY'S PILLS.—A sergeant of one of the regiments doing garrison duty in Hobert Town had been for years a markyr to rheumatism. He was under the care of the regimental surgeons, but, deriving not the least benefit from their treatment, in despair, he had recourse to Holloway's pills, and, as by a miracle, this invaluable medicine has been the sele means, of perfectly quaring him, and he now enjoys the best of health. For obvious reasons, the names of the sergeant and the regiment are withheld, but Major Waich, of Hobert Town, will vouch for the accuracy of this statement.—Solt by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

FOREIGN INTELLIGENCE.

the 30th-duly, by which it appears that the mining interest of the colony has undergune no particular change. The last sale of copper at the Borra Darea Ming was 86 tons, which went at 731.2s. 6d. per ton, and was des-thed for the East Indies, and which, as a remittance, is thought likely in fu-Bert Bare Mine was 86 tons, which went at 781. 2s. 6d. per ton, and was destricted for the East Indies, and which, as a remittance, is thought likely in future to be the staple article, and will, consequently, lessen the drain hitherto made on the colony for gold for the various articles of Eastern produce with which the Adelaide market is supplied. The quantity of ore which left the Burra Bura Mine during the week ending the 7th July, was 45 tons; and of copper 16 tons 6 cwts. The quantity of ore arrived at the port was 30 tons. The exports of copper for the year ending June last had been 15,598 tons, of which the Burra Burra Mine produced 13,745 tons. During the same period 300 tons of lead were also shipped to England. The South Australian, in alluding to the great improvement which has taken place in the colony, refers to the receipts of revenue for the quarter ending April last, amounting to the sum of 42,6751. 16a. 9d., against 27,676. 11a. 7d. in the corresponding quarter of 1848, being an increase of 14,999l. 5s. 2d. in three months, and observes—" It is really difficult to conceive a revenue in a more flourishing state than the above indicates. After remitting 4200l. to London, for a steam dredge, we presume, and paying nearly 5000l. for public works and improvements, the expenditure is still about 10,000l. less than the revenue. If this proportion continues throughout the year, which we see no reason to doubt, we shall have an annual surplus revenue of 40,000l. We sincerely hope that this will not be allowed to lie idle, for there are numerous modes of expending it for the benefit of the colonists. The revenue is not the only indication of prosperity presented to the colonists. A comparative table of the assets and liabilities of the Bank of Australias abows that, so far as that bank is concerned, our suances are in a most flourishing state, and we have reason to believe that the Bank of South Australias and show that, so far as that bank is concerned, our suances are in a most flourishing state, and

shareholders. A list of the prices of mining shares will be found elsewhere. Accounts from Swan River, Western Australia, are to the end of July, and represent the colony to be in a very depressed state.

From New Zealand the accounts extend to the 6th of July; they state that the value of the exports at Auckland, for the quarter ending 5th April last, amounted to only 4786. The Kaw-aw Mines were progressing satisfactority. Smelting-works were in operation, and it was expected that the produce of the copper mines would form a principal feature in the future tables of exports. About 100 people had left Auckland and the neighbourhood for California; they had sold all their possessions previous to embarking for the new El Dorado, and the consequence of so much property being thrown on the market had reduced the value of houses and land 50 per cent. At the last public sale of land there was only one purchaser, who bought at the Government upset price without opposition. There had been another slight shock of an earthquake felt at Wellington.

From Sydney we learn that 10 tons of ingot copper had been sold for 814.

felt at Wellington.

From Sydney we learn that 10 tons of ingot copper had been sold for 811, per ton. It was the first lot smelted in the colony, and attracted attention.

Letters from Magdeburg mention the result of an experimental trial lately given to the coal from the mines of Dortmund, in Westphalia. On a comparison with English coal, which is there in general use, it is stated to possess much greater heating powers, and to be admirably adapted for railway purposes. It is expected that, in conrequence of this result, it will be very generally used, so soon as the rates of transport by railway will allow of its being conveyed to a market.

California — The loss

rally used, so soon as the rates of transport by railway will allow of its being conveyed to a market.

California.—The last accounts represent the existence of much sickness at the mines—the "sickly season" comprising the months of July, August, and September. We learn, by the New York Herald, that "the receipts of California gold at the United States Mint, up to the 1st October, 1849, were—

At the Mint in Philadelphia \$2,397,264 46

"New Orleans 200,561 42

Total of this year \$2,657,825 88

Add deposits of 1848 44,177 00

The following are extracts from the Placer Times:—

The month of August has multiplied the number of gold washers on the principal streams of the Sierra Nevada, but the prospects for the mass crowding on are but imperceptibly lessening. The waters are nearly at the lowest stage, and quite in proportion to the increase of labourers; the chances are residered more favourable by this circumstance. New mashings have been discovered, and old ones abandoned. We have no prodigious gold atories to relate, but confining ourselves to the simple assurance of good luck for those who labour, we trust not to defeat the expectations of the most visionary.

J. B. Taylor, who went on to San Francisco about two years since, as agent for a company in New York, is about returning to the States for apparatus to work the quickailver mines he purchased on the ranch of G. C. Cook, which ranch, it is believed, is inexhaustible in its quickailver. The large mine of Forbes and Co. stands upon this ranch.

At Mormon Island a company are engaged in scientific mining: they employ quickailver in extracting the metal from ground previously subjected to the tradle, or oan, process, and with a machine invented for the purpose, average about \$200 per day.

We have seen several who have returned from the placer within the past few days, but they bring no news of interest. They represent things favourably, as all do who have been successful, but agree in the opinion that a man has to "auffer some" in this branch of productive industry. We learn that a party are operating on the Middle Fork with a "aubnarine armour," by which ar-

rangement they take out many thousands daily of the dust. They think, when they get their apparatus fairly at work, they will average \$10,000 per day.—We have advices from the North Fork of a very flattering nature. Companies that have turned the current of the river are now taking out from \$3000 to \$5000 per day.

Second of Gold Digging.—Dr. H. Van Dyke, a member of the North Fork Dam and Mining Association, which company has recently completed a lateral canal at Beal's Bar, a little above the juncture of the North Fork with the Rio Americano, has just returned from the scene of operations. The work of drainage had been completed only three days before he left, and though the company laboured under many disadvantages, they had raised, in this short time, over \$15,000. This association is composed of about 30 hard-working men, and from the result of the few days' labour since drainage, and the fine prospects of continued success, they condidently count upon a yield of about 10 oza, per diem, each man, during the next and succeeding month. In confirmation of these statements, we are at liberty to refer the reader to Mr. R. Van Dyke, of the house of Bleeker, Van Dyke, and Beiden, of this place, where specimens of the gold so got may be seen.

The Memnon land arrived at San Francisco after a passage of 120 days from New York.

The Memos and arrived at San Francisco after a passage of 120 days from New York.

The Science of Mining.—The mines of California have baffled all science, and rendered the application of philosophy entirely nugatory. Bone and sinew philosophy, with a sprinkling of good lack, can alone render success certain. We have met with many geologists and practical scientific men in the mines, and have invariably seen them beaten by unskilled men, soldiers and sailors, and the like. The simple secret is, that gold has been thrown about promiscuously by volcanic power, and distributed along the margin of streams and in river beds by mountain torrents, and it is the hard working and lucky man who may restore it.

GOLD FROM CALFORNIA.—Mr. Richard Holmes, late of this town, arrived.

river beds by mountain torrents, and it is the hard working and lucky man who may restore it.

Gold Prom California.—Mr. Richard Holmes, late of this town, arrived from California, by way of New York, in the Casadu steamer, on Sunday evening last. Mr. Holmes was well known in this town as foreman to Mr. Richard Crossly, boot and shoe maker, South Castle-street, and subsequently in business for himself in Whitechapel. A little more than two years ago bis premises were burnt down, and he left this country for South America. Not liking the country, he started for California, long before the gold fever set in, and he has resided there altogether about 18 months. He left San Francisco on 2d Sept. last. During a part of last year, and at the beginning of this year, he was at work at the mines, and has realised a very handsome sum, as he brings home with him 50 lbs. weight of pure gold. He favoured us with a call yesterday, and showed as some of the gold dust, with several large pieces of the precious metal, which he had picked up from the beds of the river. The largest piece of pure gold which he secured weighed 89 cas. He attace that there is no doubt a great deal of gold in the country, but, with that exception, he added, "it is not worth a straw." For three months last year he never slept under cover of any kind, and the softest bed he could indulge in was a rock. Every thing is exorbitantly dear, and there is a great scarcity of the fair sex. He left 220 sail of vessels at San Francisco.—Liverpool Mercury.

Mining Correspondence.

ALFRED CONSOLS.—The lode in the 60 fm. level, cast of Field's engineshaft, is about 5 ft. wide, good saving work for copper ore—quite as good as reported last
week; the lode in the same level west is about 1 ft. wide, and over. In the 30 fm. level,
cast of the engine-shaft, we have a large promising lode, bring mostity spart. The 40 fm.
level is driven as far west as Wy de's shaft, and suspended; the men are put to sink Wyld's
shaft, to ventitate this level. We think the shaftmen will resume sinking Fleid's engineshaft under the 66 fm. towlo on Wednesday next, in a good course of copper ore.

BARRISTOWN.—There is no change in the bottom of the adit level—still
producing about 1 ton per fm. west of the slide; the stopes in the back of the adit level
are suspended -being very poor. The lode in the 24 fm. level, west of the engine-shaft,
is about 2 ft. wide, with a mixture of lead through it, but principally blende and fron;
we are saving a little of the lead, but nothing at present which I could report on its value.
The cross-cut, south of kin shaft, is now about 5 fms. South of It; and, according to
diviling, the lode should be between 5 and 6 fathoms south of the shaft at this point; in
driving the western cross-cut south we have cut a lode about I ft. wide, perpendicular,
with a good branch of lead, about 2 in. wide, on the north wall; from its present appearance, and the character of the lead (siele grain), it must be the same that we stoped in
the bottom of the adit level, which was loft pretty good, about 5 fms. under the level.
but was abandoned on account of water; this lode was always perpendicular. We shall
now endeavour to clean up those bottoms and prove it further.

BEDFORD UNITED.—In the 103 fm. level, east of the engine-shaft, there
is no alteration. There has been no lode taken down in the 103 fm. level, cast and west
of Barley's winze. We are rising by the side of the lode in the 90 fm. level, cast and
west
of Barley's winze. We are rising by the side of the lode in the 90 fm. level, cast a

men, this mine must be about 22 fms. below the surface, and 15 fms. under the adit level; but it appears they had in the former workings no meatinery, except tackies, in different places—30 I think we shall be able to clear out the workings without a whim. CARTHEW CONSOLS.—At the upper mine the sumpmen have this week been engaged in repairing the middle shaft, and on various other work in the mine, which has of necessity kept them from doing little or notifing in the engine-shaft. In clearing the 43 fm. level south we are making great and no less cheering progress; we have now cleared between 30 or 40 fms. south of the middle shaft, and in every fathom our prospects are being brightened; we have now cleared between 30 or 40 fms. south of the middle shaft, and in every fathom our prospects are being brightened; we have flowed in the back for the last 20 fms., a very good branch of lead, varying from 2 to 8 in. wide. In the 35 fm. level end south we have done but little this week, having been blocked up with tributers' work. The fodds in the end in the 23 fm. level, has been producing very good stones of lead this week, and continues to look very promising indeed. Our tribute department continues to look remarkably well, and in my next report I shall notify some new pitches being set in the 45 fm. level, which holds out no small promise. At the lower mine, we are fast approaching, in the adit end here, that very desirable object, the upper mine lode; the ground continues in the end very good indeed, but the lode does not alter much in its appearances. Our average driving is about 9 fms. per month:

COURT GRANGE—Capt. Matthew Francis reports—You will have much pleasure in being enabled to inform the propietors, that the bottom level, driving west of the engine-shift, is in a lode containing a good course of mixed sliver and lead over for a width of 4 to 5 ft.—a very encouraging feature in this part of the mine, where very little trial has been made; and I entertain a very favorable opinion as to its bearing large

shaft, 10 fms, east, are worth 51, per fm. The stopes from 20 to 30 fms, east of the engineshaft, are worth 121, per fm; ditto from 30 to 40 fms, east of engine-shaft, are worth 102
per fm. The sink under the 24 fm, level, 25 fms, east of the engine-shaft, are worth 102
per fm. The 30 fathom level, east of the whim-shaft, is poor; the 20 fm, level, east of
liobert's winze, is worth 121, per fm; the 20 fm, level, west of ditto, is poor; the stope
in the back of this level is worth 122, per fm.

DEVON AND COURTENAY CONSOLS.—The lode in the winze sinkfm; below the 40 fm, level is 30; wide, cumposed of earlest and stars with speeds.

ing below the 40 fm. level is 3 ft. wide, composed of capels and spar, with spe small branches of ore; the lode in the stopes in this level is worth 61, per fm. cross-cut driving north in the 50 fm. level, the lode is not yet intersected, but the course is looking very favourable, being strongly impregnated with tron, saund ore. The pitches in the back of this level continue to yield good work.

ore. The pitches in the back of this level continue to yield good work.

DAREN.—In a day or two you will receive a specimen of the ore discovered in the level Coed adit; this in the rise will now yield from £2.4 to 151. worth of ore per fathom, having a leader of solid ore for 5 in. or 6 in. in width, and many smaller strings. In the level 40 fms. above level, Coed, and about 40 fms. below the surface, the ore ground stoping yields 81, to 101. worth of ore per fm. When the crushing-mill is fixed, we shall be able to return ore at a good profit, and, from the quantity of high ground, shall not require to sink for many years; it will, however, be a wise policy to get out the water from the western part of the old to be ar do not as possible; and, as all that we have yet tried is profitable ground, I see no reason to conclude that the body of lode now under water is otherwise; indeed, I undertake to say, that we shall find very valuable bodies of one in that portion of the mine. We have now put a ladder road in the western engine-shalt, and are taking means to ascertain the best way of resching the south lode, and the function of it westward with the Daren lode.

DYNGWM — I have to send the second of the setting for November. In

tion of it westward with the Daren lode.

DYFNGWM.—I beg to send you a report of the setting for November. In the 22 fm. level, the bottoms, both east and west of the engine-shaft, I have suspended, being satisfied of a good lode of ore going down; we set the engine-shaft to sink 5 fms. in the month, at 8t, per fm., to fine men; in the west end four men lave to clear their old staff, and I expect the end is far enough west to rise against the steel ore stopes; the east end is set to two men, at 4t, per fm., to the winze, which is now full of water to the 16 fm. level; the lode is again larger, and a little ore coming in again in the end. In the 16 fm. level on thing yet can he done before the ends under are driven further, and communication made from the levels below. In the addit level cast nothing more can

be done than has been to scoure the level; in the adit level west, I am lumpy to fulture you, we have at last get through list, troublesome runs of attite, and on Saintrap that I went through is the sinks seed one stopes, and, by through gown a sinker, found it fell, into water. A teach will in faced, expension, and, by through gown a sinker, found it fell, into water. A teach will be face to expension, and, no time shall, be fact in celling to the sinker of t

resease to 2 ft., and is composed of floor-spar, namelic, and over, the underlay is apparereased of this new lode, it will be found of considerable importance in our next level. The lode in the 20 fattom level west is without alteration. Our creates walls are very nearty compilere.

HEIGN STUN DOWN CONSOLS.—The 45 ft. level has produced some good stones of yellow copper or in the past week. The 35 fm. level is without important alteration—a very promaining tode indeed. In the 20 fm. level is without important alteration—a very promaining tode indeed. In the 20 fm. level is without important intended to cross-cut north from the present end, to ascertain whether the main part of the lode is yet north of the part on which we have been driving.

HOLMBUSHL—The lode in the 120 fm. level south is 9 ft. wide, composed of soft quarts, and occasionally stones of lead. The ground in the 120 fm. level coss-stand without being timbered); every effort is still being made to reach the 160c, which we hope, and at present have every reason to believe, will be a productive one, jedging from its apparantee in the 100. The lode in the 170 fm. level south is 5 ft. wide, composed of hard spar, killns, flookan, and stones of lead. The flap-jack lode, in the 100 fm. level, can of opper ore per fm. Our parcel of copper ores, welched last Friday, at Calstock Quay. 39 tons 19 cwts. 2 qcs.

KIRKCUDBRIGHTSHHER.—The lode in the 50c west is still? The wide, yielding from 18 to 20 cwts. of lead per fm.; the lode in the 52 cast is 1ft. wide, yielding from 18 to 20 cwts. of lead per fm.; the lode in the 62 west is still? The wide, yielding from 18 to 20 cwts. of lead per fm. The lode in the 62 west is still? The wide, yielding from 18 to 20 cwts. of lead per fm. The lode in the 62 west is still? The wide, yielding from 18 to 20 cwts. of lead per fm. The lode in the 62 west is still? The wide, yielding from 18 to 20 cwts. of lead per fm. The lode in the 62 west is still? The wide, yielding from 18 to 20 cwts. of lead per fm. We intend to the par

SOUTH WALLS SHARS.—At Douclast the ananow and south, by two men-funs, or cut the lode, at 12a per fm. At Dalwin the deep adit, east of the Rhydret River, on the south, or the Frongools, lode, by six men, 6 ms. stent, or the month, at 24. Ibs-per fm. d rove last month 8 ms. 1 R. 6 in. The lode is much the same as last reported, looking very promising, and producing rich copper ore and lead; for the last 10 or 12 ms. driving we have not been carrying the whole of the lode; we sail now cross-cutff in orth-in order to ascertain its treadth, 80: A winze to sink below the deep adit, by six men, 6 ms. stent, or the month, at 24. 16s. per fm.

SOUTH WHEAL TRELAWNY.—The ground in the engine-shaft, sink-ing below the 40 fm. level, is still favourable, being a dark blue killas stratum, 2 fathoms 4 best 8 inches lifeting been sunk through this last month, and is egain set to sink for one month at 101, per im—water much as usual.

4 feet 8 inches having been sunk through this last month; and is egain set to sink for one month at 10. per im.—water much as a usual.

TRELEIGH CONSOLS.—The 125 cross-cut, at Garden's, is driving towards the lode. In the 30, west of ditto, this lode is 2 ft. wide, with good stones of ore, and is looking more kindly. In the 80, wast of ditto, on the north part of the lode, the lode is 24 ft. wide, worth 32t, per fm.: in the 80, east of cross-cut, on ditto, the lode is 36 ft. wide, worth 65 per fm. in the 80, west of Garden's, on the south part of the lode, the lode is 14 ft. wide, at present poor, but look forward to better results; in the winne below the 80 tha lode is 16 in. wide, with stones of ore—expect to hole in the 90 next week. In the winne below the 10 the lode is 18 in. wide, with good stones of ore, and is looking kindly. In the 60, west of Garden's, the lode is 16 in. wide, poor at present, but coming under kindly ground. At Wheal Farent, the engine-shalt below the 30, not down to the 40 fm. level. The 40 cross-cut, north of engine shalt; is driving towards the middle lode. In the 30, east of ditto, the lode is 21 in. wide, with stones of ore, and is looking kindly. In the 60, west of ditto, the lode is 20 in. wide, with stones of ore, into 4 little is suspended. The middle lode, at Nicholson's shaft, below the adit, is suspended. The middle lode, at Nicholson's shaft, below the adit, is suspended. In the adit, cast of ditto, the lode is 15 in. wide, with stones of ore, in the 10 cast of the 10 the 10 th 15 in. wide, with good stones of ore.

WEST WHEAL JEWEL.—The 85 fathorn level, west of William's cross-course, on the lode, is unposed to the lode is 15 in. wide, were well one weet, on same lode is worth 50. Per fin.

be en cross-which

dhetive. The deep adit, west of Tregoning's shaft, on Tolcarne tin lode, is looking promising. The 12 fm. level, west of ditte shaft, on same lode, not taken down in the past week; the stopes in the back of the 12 fm. level, west of Pryor's winze, on same lode, worth 147, per fm.; the stopes is the back of the F2 fm. level, east of Pryor's winze, on same lode, worth 107, per fm.; the stopes in the bottom of the 13 fm. level, east of Tregoning's shaft, on same lode, worth 207, per fm.; the stopes in the bottom of this level, west of Tregoning's winze, on the same lode, worth 207, per fathom—these stopes are WFFC WFFP.

going's shaft, on same lode, worth 20. per fm.; the stopes in the bottom of this level, west of Tregoning's winse, on the same lode, worth 20. per fathom—these stopes are working on tribute.

WEST WHEAL PROVIDENCE.—I beg to hand you the following report of our operations in the past three months:—We have driven the 35 fm. level west of Michell's shaft, on the middle lode, 18 fms., which will average 71. per fm., and cost of driving it, by four men, at 40s, per fm., is we have driven east on this lode 8 fms., average worth 34. per fm.; at present the end is poor. We have also driven a cross-cut north of Michell's shaft 4 fms., and cut a north lode, containing good stones of tin, but we have not opened on the lode yet; there are eight men stoping the back of this level—six at 20s, per fm., and two at 15s, per fm. We have hole 3t. Aubyn's shaft to the 40 fathom level, and driven the 40 west of it 13 fms. through moderate tribute; ground; at present here are four men driving it, at 45s, per fm., and is. in 1t. tribute; the lode is worth 71. per fm. We have three pitches working—one in the 55 fm. level, at 3s. in 1t.; one in the 40, at 12s.; and one in the 39, at 12s. The principal part of our tin is from our stopes. In conclusion, i beg to add that a dividend similar to the present may be expected three months hence.

WHEAL ANDERTON.—In sinking a winze under the 70 fathorn level, we have made a very good discovry of tim ore on the north wall of the lode, the leader, being very good work; is 1f. wide; the lode to the south not being yet cut through, we cannot say its size; but, to all appearances, it is large, as the pair cutting into at the 90, under this place, is above 4 feet big, and the north wall of the lode, the leader, being very good work; is 1f. twice the lode to the south not being yet cut through, we cannot say its size; but, to all appearances, it is large, as the pair cutting into at the 90, noder this place, is above 4 feet big, and the north wall of the lode, the leader, being very good will be a sun

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WHEAL BENNY.—At Ford shaft, set to drive west in the 30 fm. level, fms., at 31. los. per fm.; sinking on the Benny lode 3 fms., at 31. 5s. per fathem—takers pay all costs incurred.

of shaft, shorily, as indications of nearing. It are more discernible than internot. Lawre shall such a foot; alle, being about 6 tons; I think the quality equal, foot superior, to the lastsoid, which brought 48f, per ton.

WHEAL BENNY.—At Ford shaft, set to drive weak in the 80 fm. level, 3 fm.s., at 51.0 sp. per fm.: staking on the Bonny lode 3 fm.s., at 31.5 sp. per fathom—takers 10 to WHEAL LAWRENCE.—We have driven the adit level south 48 fms. to-wards the 1 him shaft, and 5 fm. east and west, at different points, to prove some cross to deep use the 1 min shaft had 5 fm. east and west, at different points, to prove some cross to deep use the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and the 1 min shaft had 5 fm. east and 1 min shaft had 5 fm. east fm. east and 1 min shaft had 5 fm. east fm. east and 1 min shaft had 5 fm. east fm. ea

FOREIGN MINES.

AUSTRALIAN MINING COMPANY .- TONGKILLO MINE-June Report

men will be put to sink a winze below the 40 in zecurse of one; by which mens they will be enabled to raise a greater quantity of creation to diving the level. There is unother cross-cut from Baker's lode in the 40, situate about 14 fms. south from Lean's winze, in which we have cut through a lode about 4 ft. wide, containing some copper pyrites and muriate of copper, imbedded in a most beautiful gossan. We continue the cross-cut west this month probably, and if no other lode is cut, we shall turn our artention to and drive south on the one already jussed through. No cross-cut having been driven west from Baker's lode in the 30, and having such a good lode of ore in the 40, six men are now smoloyed to drive west from Bawling's winze in the 30, where I expect to cut into the side lode in the present month, after which a winze must be sunk through theore to ventilate the mine, and facilitate the raising of a much larger quantity monthly than we can now raiss. In Anstey's engine-shall we have reached about 13 fms. below the 40. The last hole that was bored let out an increase of water, so that the six horses employed to work the pump were unable to keep it under; the drainage had, however, enabled us to work 2 fms. deeper in Anstey's loide below the 40, from which we have raised some 10 tons of copper pyrites, of 20 per cent., but which cannot be separated from the quants, Sec, with which it is combined, without more complete dressing apparatus than we are at present 1 am glad to state that the mine improves daily, and can only be seen to the content of the combined, without more complete dressing apparatus than we are at present.

which it is combined, without more complete dressing apparatus than we are at present acvided with the mine improves daily, and can only be brought to perfection by the usual side. It will be many months before it can be effectuably drained by stampower: in the interim, however, the horse-pumps will enable us to key open many first of the lodes, both at Masterman's shaft and Anatey's, in the 30 fm, level, where, by discovering the dip of the lode, and the dip of the one, we shall be in a position to judge where to esset the steamerains, shouly expected from England. In conclusion, the question must naturally arise— Why is it that a greater quantity of copper is not raised? It which I reply, we are now opening the mine; as men can drive no more than 10 ft. in a month, at 30t, per fin.; but when the mine is opened, the same kind of ground can

be stoped away for 10t. per fm., and produce three times as much ere; and the more we onen the mine the greater number of miners can be set to work.—A. PRILLIPS.

Auty—Total quantity of cres sent from this mine to Pert Adelaitie from the 3 gent continuement and papeas to yield 36 per cent. of mosts... 21 cars. 299 Continuement of the papeas to yield 36 per cent. of mosts... 21 cars. 200 On the mine, available for colonial ameeting... 48 continuement of the colonial ameeting of t

LINARES MINES.—Letter from Mr. Henry Thomas, dated October 21:—
Accompanying this, you will receive a report from Capt. Carry... The weekings are carried
on four distinct branches, which appear to have united and formed in one part of the
mine a very large body of mineral. The water is how down about 6 ms. under the first,
or 17 fm. level, and, though somewhat irregular in its progress, is sinking at the rate of
about 1 ft. in 12 hours. We shall clear my the two whuzes nearest the shaft simultaacousty with the lowering of the water, so as to have the next level as accessible and as
well ventilated as practicable, on the mine being drained to that depth. The second
boller is in its place, and the fluer nearly completed. I need herely add, the appearance
of the workings in the upper part of the mine makes us very desirous of secing the desper
levels and winzes, where we are told on all sides we shall also find a rich mine.

lef the workings in the upper part of the mine makes us very desirous of seeing the deeper levels and winzes, where we are told on all sides we shall also find a rich mine.

*Report of Copt. Curry, dated Pozo Aucho Mine, October 21.

In referring you to the plan and section forwarded, I beg to say that it gives but a faint idea of the old workings in this mine, as they are by far more extensive than they would seem to be by these drawings. I should say that the workings on the lodes at surface were a half mile in length at least, without intervention; but to what extent in depth some of flues workings have been carried we cannot now say. I presume that you are aware that we have no addit level, but that the water finds its way through the fissures of the rock (at least, in summer) to a depth of 17 ms. At this depth the men of old seem to have formed a level, which was carried a considerable length on the course of the lodes; but at some later periods other workinen drove by the side of those old workings, or levels, cutting into them occasionally, were winze plats where opened out, and strongly arched with masenry.

This was done to clear the trine of water to a greater depth, choosing, as we suppose, to drive new levels rather than open and secure the old ones on the course of the lodes. This accounts for the crocked appearance of the first, or 17 fathom level, as shown on the plan, as the lodes by so means take this sigzag course. We have been able to examine these old workings from the different shafts, about 50 fms. in length, all of which seem to have been carefully taken away, with the exception of one or two small pillars; and, by the immense, breadth and large excessions made, we are led to believe that vast quantities of lead ores must have been raised at this level. In the past week we have been also much has been done by the men of old, from the engine shaft west as far as we can see, all the lode has been town of old of the three of the ores which we have new them we the week we have me the with som

ing, the gossan and matrix is of that mellow and kindly appearance as to confirm us our opinions of vast deposits of lead being found in depth. Our engine is working w and drawing a large stream of water, though our forking is rather slow; this may be counted for, as the excavations are very extensive.

MATRIEW CURRY

BWLCH CONSOLIDATED MINING COMPANY.

BWLCH CONSOLIDATED MINING COMPANY.

At a special meeting of shareholders, held at the company's offices, on Thursday, 1st November, it was unanimously resolved to issue 1000 new shared, at 61, per shure, to pay the liabilities of the mine, to be distributed, pro ratid, amongst the present shareholders; 22 per shure payable at once, and the remainder at the discretion of the shareholders; a general meeting to be held on the 6th Dec. next, to pass accounts, the future management, and general purposes of the mine. The following report was read to the meeting:

Oct. 24.—As I am unable to attend your meeting to-morrow, I send you my latest conviction as to the state of the mine. The steam-engine for drawing the stuff, while is the last addition to the machinery, works well, and I think is now drawing enough ore to make 80 tons per month. We lave, however, had some small accidents by the breaking of the old chains that we have had in use for a long time, which, up to this time, have prevented us fully completing the complement we had estimated. New chains and kibbles are ordered; and I have no doubt when they arrive, and some conveniences for isnding the stuff, which are now making, are completed, that we shall be able to return regularly from 80 to 90 tons of ore monthly. Our returns for the last two weeks have been 15 tons a week; but we were hindered by accidents fully two days in each week, or the quantity would have been got. I would observe, that my opinion is if we go on uninterruptedly for 12 months, we shall get sufficient ore, at a fair price, to make 4007, a month profit, although, for some months, it may be much less or greater than that amount. The mine throughout shows very good ore ground. The 3s wast yields 2 tons per finc, the 30 west 3 tons, and the 25, west of the engine-shaft, are in unusually good ore. The 36 cast has not yet reached sone ore ground that we expect is before it; but the 25 east is in a good lode, with a branch of ore from 6 in, wide in the end of the level, nearly solid, holding o

CWM ERFIN MINING COMPANY.

A meeting of shareholders was held at the offices of the company, on Tuesday last.

T. P. Thomas, Esq., in the chair.

The following statement of accounts was submitted, showing—

Balance from last account.

Labour and miscollaneous costs for July.

Ditto ditto Aug. 245 12 8-377 12 11

Merchants bills 4172 9 11

Showing balance against the mine£246 3 2

Showing balance against the mine£246 3 2

A report from Capt. Frances having been read, and Mr. T. P. Thomas having signified his intention to resign the pursership of the mine, but expressed his willingness to continue, upon a committee of management being appointed, Mr. Heald proposed, Mr. Stride seconded, when it was resolved, that a copy of Capt. Absalom Francis's report be circulated among the shareholders, and that the meeting stand adjourned till Tuesday. It was proposed by Mr. C. Chippintale, and seconded by Mr. Smith, that Capt. Trevethan and Capt. Barbery inspect the mine, and make a joint report of its state and prospects in time for the adjourned meeting.

EAST GODOLPHIN MINING COMPANY.

EAST GODOLPHIN MINING COMPANY.

A general meeting of adventurers was held at the mine on the 26th October, when a statement of accounts for three months ending 30th Sept., was presented, showing balance of 563t. 19s. 7d. against adventurers —A call of 3t. per share was made.—The following report was read to the meeting:—Oct. 26.—Since our last meeting of the 30th July, we have completed the building of the engine and boiler-houses, and evected and set to work a strong 41-inch cylinder engine, giving a 7th stroke in the shart, and 9 in the cylinder. The pilwork in the engine-shaft consists of a house, it of athous plunger-lift, with a 5-inch pole, a drawing lift of 11 fms., with a 7-inch tox, a bulance-bob at the surface, with 110 fms. of horizontal rods drawing water from the flat-rod shaft, with a 5-inch box. The engine is put together in an officient manner, and with the flat-rod works smooth and easy. We are thus in possession of steam-power sufficient to command the water to a considerable depth, and to work the mine to a great extent. The addit level, which is 16 fms. from surface, we have driven 21 fms. from the south loie to the engine-shaft north. The engine-shaft is now down 11 fms. under the adt -present price for sinking by nine men 1s 67, per fathom. A plat is being cut in the 10 fathom level, for the purpose of driving a cross-cut north to Intersect an east and west lode, which will be seen within a few fathoms of the shaft. In the -meantime, the samp will be continued down to a 70 fm. level, where a cross-cut will be driven south to intersect the sorth lodes, and, on this intersection being made, about 200 fms. of ground will be laid dry, where the lode has been worked away in different places both above and below the adit level, to nearly 16 fms. in depth, by the old men. In the 20 fm: level we expect to meet with productive ground to a great extent, which will be at a fair tribute. The fair-rod shaft is sunk below the adit low fms, which is 15 fms, wheich is 3 fms, deeper than the old men reache

FOWEY CONSOLS MINING COMPANY.

CONAMENA.—At a meeting of adventurers, held at Liskeard, on the 24th of October, a statement of accounts was produced, showing—Received for copper ore, 843L 10s. 4d.; balance of flast account, 75L 19s.—419. 0s. 4d.—Labour cost for July and August, 99. 10s. 11d.; materials, 11l. 6s. 8d.; lords' dues, 21l. 11s. 8d.; leaving a balance in favour of the adventurers of 287l. 0s. 1d.—The following report, from Captain J. Buzza, was read to the meeting:—Presenting you with my two months' report. I beg to describe the present state of the mine as follows:—Taylor's tode, in the 17 fation level cast, is to inches wide, producing half a ton of ore per fm. The 38 fm. level on the same lode is roor; we intered putting the men to rise in the back of this level, to meet a winzs inking from this 15 fm. level, to have air to extend both those levels. At Gilpin's lode, in the 60, the end is now 2 ft. wide, producing 1½ to pre fathom. We expect in two months to have firm 30 to 40 tons of ore for sale. We have commenced the 80 cross-cut not th, to intersect Gilpin's lode in this level, which we keepe to do in four months.

WEST CARADON.—At the two-monthly meeting, held at Liskeard, on the 24th October, the accounts were examined and passed, showing—Ores said (less lord's dues, 294L 5s. 10d.), 4423L 11s. 6d.; materials sold and rents received, 471. 14s. 2d. = 4471L 5s. 8d.—By July and August labour cost, 3129L 15s. 6d.;

rates, 11. 10a. 9d.; doctor and club, 47l. 15a. 11d.; materials, 704l. 13a. 3d.; madries, 13a. 10a. 11d.; in part towards law costs, in case of Tucker v. Fox, 15dl. 7b. 5dl.; leaving profit on the two months of 419l. 2a.; to which add balance last account, 1421l. 11a. 10d.—maker a total of 1840l. 13a. 10d.; from which deduct dividend, 640l., paid in Sept., leaves now in hand, 1200l. 13a. 10d. Wheat Blencowe Mine.—A general meeting of adventurers was held at the mine, on the 28d October, when the accounts were presented, showing—Balance due to purser, 232l. 18a. 6d.; cost for June, July, August, and Sept., 489l. 0a. 11d.; merchant's bills, 89l. 15a. 10d.—811l. 15a. 3d.—By tin sold, August 31, 232l. 6a.; tin sold October 20, 100l. 1a. 2d.; calls, 150l.—leaving balance of 338l. 9a. 1d. The accounts were passed, and a call of 28a. per share made. From the report of the mine, as well as from the reports of other agents who have inspected the mine, it appears that the appearance of the east and west lodes, where they have been cut in the 15 fin. level, precludes the hope of any returns being made from them to assist in driving the 30 fin. level, to intersect the lode at that depth. The object which the adventurers have always had in view cannot, therefore, be accomplished without further calls; and, as some of the adventurers are in arrears for former calls, it is deemed advisable by those who have promptly paid, not to incur further responsibility; and, therefore, resolved that the mining machinery, materials, and everything belonging to the mine, be disposed of by public auction, and the concern wound up as speedily as possible, and that a committee be appointed to assist the purser in carrying the same into effect. same into effect.

WHEAL MARY CONSOLS.—At a meeting of adventurers, held at Liskeard on the 24th Oct., it was resolved.—"That the committee, appointed at last meeting, having now reported that the lords of the mine are ready to take up 32 (256th) shares, at the rate of 2:00L for the whole of the mines and materials, payable by acceptances at three and nine months, and that some of the committee, and other present adventurers, will carry on shares on these terms, this meeting assents to a sale for the above sum, and directs the purser to offer shares to all the adventurers for their acceptance on or before the 15th prox."

MINING IN THE CARADON DISTRICT.

MINING IN THE CARADON DISTRICT.

Sir.,—Will you favour me with space in your valuable Journal to give publicity to some remarks respecting the prospects of the mines in this neighbourhood? My object is to inform the public what is doing; and I am bappy to say that great improvements have recently taken place in several of the mines. The Phienix Mine.—They have a good course of copper and tin here, both in one lode—tin in the capel, and a good course of copper in the main body. Before I proceed further, let me remark on the utility there is in having persevering and experienced agents, as it is generally understood in the neighbourhood that the present grativing condition of this mine is mainly owing to the undannted perseverance of her excellent manager, who has superintended all the operations through the greatest difficulties, and succeeded in making her a paying and, I believe, a lasting and profitable mine to the adventurers.

Marke Valley Mine.—This is much improved of late, and likely soon to rank among the dividend-paying mines, if the standard keeps up; in fact, she more than pays cost at present. Perseverance appears to be what is wanted in many setts, or they would not have been abandoned, but rather paying the shareholders, ere this, for their outlay. Such is the case with many in this district—had they been wrought to half the extent that the Marke Valley has, they would now appear monthly in the ticketing list of sales.

SOUTH CARADON MINE.—After having for some months fallen off in her samplings, this mine has again improved. The agents have discovered a fine course of copper in their bottom level, on Clymo's lode, in the eastern ground, coming towards the eastern engine-shaff, which was set to work this summer. I may truly say that this mine has been kept alive by the united efforts and skill of the Messras. Clymo, who hold about, or more than, one-half of the property. Had they worked the mine as many others would have done—viz: "dug out the eyes" of the lodes (as we miners say) to make the earl

"dug out the eyes" of the lodes (as we miners say) to make the earliest returns, she must have gone down, or ceased to work; but, no! said they, rather stop our dividends for 12 months than lessen our tutwork. By this means the mine is in fall operation.

West Caradon Mine.—This mine never was so rich as at the present time. I have been informed that the agents have now in operation eight very productive lodes. She is, at this time, the second-best paying copper mine in the county, and likely to be as lasting as any.

Caradon Wherl Hooper.—This mine has produced some very rich copper ore of late, from three different lodes, about 40 or 50 fms. from surface, in killas, south of the granite. These three lodes must meet between this and the next level, which will be 12 fms. below; the three branches will average about 5ft. in width; two are underlaying south, and the southern one underlaying north, which appears to be the master-part, as it is the largest, and, as soon as it was intersected, drew off all the water from the other two, which before were very wet. Between these lodes are many branches, some 6 inches, and others not more than 2 inches wide. From the lodes they have broken about 2 tons of rich yellow copper ore, better than which does not exist in England; indeed, it is such as to warrant large returns. In the next level, the shaft is such 2 fathoms below the present level, which is 58 fms. below surface. It may appear strange to many of the shareholders to hear that the copper was taken from the same level as that we commenced sinking the shaft from, that being 58 fms. deep, and where the ore is only 40 fathoms deep; such, however, is the case; the descent of the hill, and the host of levels, have taken off from 18 to 20 fathoms. The shaft is ugranite rock, of a blueish colour, which is found to be most congenial for copper. There is one very large lode near the shaft, about 6 fms. south. We shall not have far to drive to intersect this, after the shaft is put to the 70; from this we have broken some

outlay. This concern is thought, by some of the most eminent miners and geologists, to be one of the best mineralised pieces of ground in the district; and an eminent miner inspected the sett, in company with Capt. John Spargo, whose abilities as a practical miner are unquestionable, and whose joint opinion is, that there cannot be a better speculation in the mining world.

*Caradon Wheal Hooper Mine, October 25.

JOHN SEYMOUR.

DIVIDEND MINES-LEVANT.

Six,—In your remarks, in last week's Paper, you name Levant Mine as giving 30l. per share per annum. I have held a share in the mine since April last, and have received successive dividends, as follows:—12l, 12l, 5l, 5l,—34l. If the mine continues well, in the same proportion, 59l 19s. will represent the amount per annum. If I am correct, I believe thus naming it will insure the point being properly noticed by you.—K.: Oct. 30.

ASTURIAN MINING COMPANY.

SIE,—In last week's Journal, your poetical and facetious correspondent, "R.," in alluding to the gigantic myth, the Royal North of Spain Railway, states that M—by was not named the engineer. As, in my previous communication, I had informed you that Mr. Manby (for no doubt that gentleman is meant) had made the enly surveys on the line, it will be useless contradicting that I wished to impose false information on you. I am not aware whether Mr. Manby was remunerated from the funds of the Royal North of Spain or the Asturian Mining Company; the general impression was, that it was a joint concern. Further, if you will refer to your advertising columns for 1845, the names of Messrs. Manby, Brothers, will be found as resident engineers.

London, Oct. 31.

CAMBORNE CONSOLS.

Sire,—Though a very small shareholder in the Camborne Consols, I was much gratified with the account of the "discovery" in the mine, given in your last week's paper. If the 400 fms. should "dress up to an average of 250L per fm.," then is this property, without going downwards, and independent of its copper, worth 100,000l. This would make each share worth 100L, for it is fair to presume the copper ore, from the present appearance of the mine, would pay all her expenses, thus leaving the silver ore not profit. Should the results barr out the present prospects, the Camborne Consols will be the great hit of the year. I trust we shall see, whether the workings improve or vanish altogether, a faithful report now and then in your Journal. "Truth is the soul of confidence."—An OLD SUBSCRIBER: October 29.

MINING NEAR TAVISTOCK-WHEAL MARY EMMA.

Sin,—I should not have presumed to trespass on your columns, were it not to thank you for the kind attention you paid to some remarks made on my communication of the 4th of October, by "Mineralogist," who gives his bocale, Golden Cross. I believe it was distinctly stated in my has testor, that there were large grains, or cubes, of tin in the lode—a term which I consider to be

appropriate and almost universal. For instance, a cube, rhomboid, the tetrahedron, the prism, the single pyramid, and various other figures, when crystallized, may be referred to either as perfect, or having undergone some change by truncation or otherwise. The gentleman says, in his letter of the 24th of October, that there are diversified opinions relative to the primary form of crystals taken by native oxide of tim. I may also, I pressume, in allowed to form an opinion, in accordance with my own ideas, from practice and experience, which is generally a more unerring rule than a mare glance of theory. The simple term of cube used, I considered to be sufficient and explanatory. The writer's expression of the 180 varieties, convinces me that syntaxical observations are the predominant features of his argument; and would merely say, in conclusion—

Cubes of tin, and cubes of copper, Training are the predominant restures of his argument; and would here
ly, in conclusion—

Cubes of tin, and cubes of copper,
Cubes of lead—material matter;
Golden rays are seen in bubbles,
Fastidious critics are like stubbles.

Wheal Anderton Mine, Nov. 1.

J. CARPENTER, NOT A BUSH FIGHTER.

WHEAL OAK

WHEAL OAK.

Sie,—Some eight or ten weeks since, there appeared in your columns a letter concerning the Wheal Oak Mine, and which was taken notice of by the purser, who intimated he would supply periodical information to you about the mine. From that time, though there have been two calls (one of 10s, the other of 30s, per share), and a general "meeting held, I have not seen any further authentic information from persons "in authority." If the concern be of too private a nature to render information through a public journal necessary, still, for the sake of the parties dealing with the mine, for such portion of the public as are buyers and sellers of mining property, and as a check on the managers, publicity, whether for good or bad, should be given to all mining matters through the medium of your Journal. Had there been no volunteering to give you notice of the state and progress of the mine, I should not now write, to remind the parties of the promise.—A Subscriber: October 29.

GODOLPHIN MINING COMPANY.—In the Court of Chancery, yesterday, in the matter of a petition, which had been presented under the Winding-up Act, on which the Vice-Chancellor K. Bruce came to a conclusion, in opposition to the decision of the Lord Chancellor in Wyld's case, that mining companies were within the Act, and made an order accordingly. The parties appealed to the Lord Chancellor, but pending the hearing, an Act, the 12th and 13th Vic., c 108, amended the Winding-up Act, and declared that mining companies were to be included in its provisions. This decided the question of an appeal, but that of casts remained. Mr. Wood and Mr. Hislop Clark now appeared in that matter, and obtained leave to present a new petition.

The LAXEM MINIS, ISLA OF MAN — GHATIFING TESTIMONIAL—The share-holders of this company, under the presidency of George Wm. Dumbell, Esq., the chairman of directors, partook of a collation at the British Hotel, Douglas, on Tuesday, the 30th Oct., when they presented their manager (Capt. Rowe) with a very handsome service of plate, of upwards of one hundred pounds value, and bearing the following inscription:—"This service of plate is presented to Capt. Rowe by the Laxey Mining Company, in token of their high estimation in which the company hold the efforts of Capt. Rowe, by whose skill and perseverance the Laxey Mines have been rescued from an almost rainous state, and placed in their present valuable and profitable condition."

Shefffilm Minic Company.—The present briskness in the lead trader arising from the recently increased exports of this article, renders the laudable

and placed in their present valuable and profitable condition."

SHEFFIELD MINING COMPANY.—The present briskness in the lead trade arising from the recently increased exports of this article, renders the laudable speculation of this company one of interesting importance. The amicable settlement of the dispute with the rector of Eyam is also matter of satisfaction, which will, undoubtedly, tend to the great interest and profit of each party. The level, or adit, is still progressing towards its final destination, when and where there will be a rich harvest—the just meed of these praiseworthy speculators.—Sheffield Times.

lators.—Shefield Times.

QUEBEC MINING COMPANY.—The shareholders of this company entertained Capt. Mathews, their superintendent of the mines, at a dinner, at which, we understand, the greatest harmony prevailed.—Mr. LE MESURIER was in the chair, and proposed the health of Capt. Mathews in very warm terms of eulogy, who, in responding to the toast, entered into many details, which gave great satisfaction to all present. It had been the intention of the chairman to have presented him with a piece of plate, which the officers and men at the mines subscribed for, but the time was so limited it could not be purchased, and orders have been sent to England for it. Capt. Mathews was, however, notified at the dinner that such a mark of regard from those in the employment of the company would be presented in spring, with which he was highly flattered, and begged the chairman to convey to the officers and men his warm acknowledgments.—Quebec Morning Chronicle.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

At the Wheal Vivian Mine, near the Indian Queen, in Columb, formerly known as the Gaverigan Mine, and now being worked by a Manchester company, an important discovery has been met with during the past week, by the opening of a fine tin lode, which is producing rich work.

opening of a fine tin lode, which is producing rich work.

BLISLAND CONSOLS.—I hear of an improvement here; they have cut a large lode pregnated with tin throughout, much better than the work I cleaned, and, after the erection of the machinery, I have no doubt of this making a dividend-paying mine. If the lodes strike into tin, you will quickly make large returns, as the lodes are large—in fact, they are regular champion lodes; and when they make tin, they are of that nature to expect very large returns, and would not likely be cut out or disordered as smaller lodes would, and the stratum is very conceptial.

CAMBORNE CONSOLS.—I learn, from good authority, that some splendid specimens of ore, containing native silver, taken from the recently discovered silver lode, have been forwarded to the company's offices, in London. It appears that the propretors are keeping matters very close for the present, perhaps for the purpose of getting hold of the shares that might be in the market, and, consequently, there are but few inquiries for shares as yet; but I am inclined to consider the prospects good, as some of the local shareholders, who are likely to be best informed, would not sell under 20th per share. I also hear that Mr. Pendarves, of Pendarves, received some specimens from the same lode, and that others were exhibited on Saturday last, at North Roskear Mine, and estimated to be worth from 3500 css. to 4000 css. per ton of dressed ore. I am not aware what quantity they are likely to raise; but as they are busily engaged in arranging a temporary shelter for commencing the dressing of silver ore, I naturally conclude that they must be in possession of a good vein.

Hennoce (Silver-lead).—In sinking our engine-shaft, we have met with

ranging a temporary shelter for commencing the dressing of silver ore, I naturally conclade that they must be in possession of a good vein.

Hennock (silver-lead).—In sinking our engine-shaft, we have mot with a part of the lode, from which we have broken some exceedingly good work for lead, principally carbonate or whitelead, some specimens I send you on this morning (Oct. 31). I did not expect to see anything of the lode until we got to the adit level, but it appears it made a heave out towards the shaft, and is now gone out of the shaft again, and I do not expect to see anything more of it till we reach the adit level. I hope this week will complete the shaft to the adit level, when we shall cut a whim-plat for drawing the stuff, and be able to set tribute to the men to raise lead, silver, and copper. This whitelead gives an entirely new feature to the mine, and it is the opinion of all the minera who have seen it, who know anything of the Hennock lode (using their own expression), that there "are tens of thousands of it there." The mes are now quite up to the mark, and are anxious to work it on tribute. There can be no doubt now that Hennock will make a good mine; the lode is worth 101. per fathom for whitelead and silver.

Pexzanor Consols.—These mines have, during the last year, returned to the adventurers tin to the value of above 900l. A new shaft has been sunk on the lode, which has cut a rich course of tin ore. The price hitherto obtained for the metal has varied from 46l. to 52l. per ton. In the opinion of a saveral mining agents, the parish of Sancreed, in which these lodes are situated, offers a fair and encouraging field for mining enterprise. No other mine this yet been explored there, though the rich sect of Baleswidden, in St. Just, is on the borders of the parish of Sancreed.

ACCIDENTS.

ACCIDENTS.

Cuddra Mine.—James Cock, one of the three men who were drowned at Cuddra Mine, as stated in one paper at the time the accident happened, was found on the 24th, after the body had been in the water 14 days.

be stated in our paper at the time the accident nappened, was found on the 24th, area the body had been in the water 14 days.

Nereyzog Conzols.—William Holman was descending the footway in the engine-shaft with a pick in one hand and a borer in the other, with a torols in his month. He went down the first ladder, and, in getting a light, he rested the borer on his hip, when the end of a both in the total struck the upper end of the borer, and forced it into his thigs, from near the body, 9 in. downwards. There are some hopes of the man's recovery.

Miss Accident is North Weiss.—One Saturday week, Capt. Jas. Ruls, of the Rhiswarth and Pengwern Mines, Llangynor, and formerly of Camborne, was putting up the span beam of a horze whin, about a ton weight, when close to its pieces, the blank on the top broke, and the beam came over. The first person struck was Capt. Rule, then a man maned Powell; also one named Faylor. The latter had his arm broken, and Fowell escaped with a few braises. Capt. Rule being under the beam, pulling the rope, had his head dreadfully cut in three places, one long under the beam, pulling the rope, had his head dreadfully cut in three places, one of the place of the place of the most alray. His cuts and bruiess are getting very favorers by, and, as no bones are broken, great hopes are entertained of his speedy recovery. There were our presents of 20 mon engaged, most of whom had a providential season.

Bries reg Hill—Boiler Explosion.—An accident, which might have been attended with

gaged, most of whom had a providential secajo.

Brier ley Hill—Roller Explosion.—An nectiont, which might have been attended with far more serious consequences, occurred at the Chapel Hill Colliery, under the New British Iron Company, by the sudden explosion of the botler (a round one), which worked the engine conhected with those pits. The boiler, which had been much used, and had become very thin at the bottom, where it explosied, was forced with great violence to a distance of about themy yards; but the ground being on a declivity, the boiler rolled three or four hundred yards further, passing across the lane, which is at the back of the church, through is parden, fearing down the evertal scheens in the way. A man asmed James W alton, who was raking the fire under the boiler at the time of the explosion, was badly scalded by the hot water from the boiler, and was bruised by some of the bricks failing upon him, but make the skilled treatment of Mr. Kempson, surgeon, the suffers.

MEETINGS DURING THE ENSUING WEEK,

RAILWAY ECONOMY.

RAILWAY ECONOMY.

We yesterday inspected a new system of permanent way laid down upon a portion of the South-Eastern line, near the London-bridge terminus, and which, if permanently successful—and there appears no reason to doubt that it will be—must result in an enormous reduction of the working expenses of the railways of this country. The point of revenue expenditure to which the attention of railway managers has, for some time past, been chiefly directed is that for the renewal of the permanent way. We have seen, in the carefully drawn—ap and very able report of Capais in Ruish, the general manager of the London and North-Western Railway, that, notwithstanding considerable portions of the line have the sleepers renewed by the contractors, a sun of 20,000, per annum is considered to be required as a reserve, to be placed at compound interest, for the restoration of the rails and sleepers; and, if our memory does not fall us, Mr. Laing, the chairman of the London and Brighton Company, has estimated the cost of renewing the wooden sleepers alone at 73h. Per mile per annum. The new system of permanent way referred to—the invention of Mr. Burlow, the engineer-in-chief of the South-Eastern Company—will, if found to be as applicable as a foar months' trial with very heavy traditic carried on with heavy enginee seems to show it really is for railway traffic, save threatists of the expense now incurred for the restoration of the wooden sleeper system, with its wooden key adjunct; and greater security to life and limb will be obtained.

By the new system of permanent way, the cross wooden sleeper and wooden key greentirely dispensed with for what is stated to be a far less perialable material—viz., estimated the contraction of the expense now incurred for the restoration of the wooden sleepers, which have three chairs cast upon them, are 5 feet long by 16 inches wide, and three-quarters of an inch deep, and the intromediate sleepers are divided longitudinally into halves, and are screwed together, so as to clasp the We yesterday inspected a new system of permanent way laid down upon a po is South-Eastern line, near the London-bridge terminus, and which, if perm

RAILWAY AXLES AND WHEELS-NEW PATENT.

RAILWAY AXLES AND WHEKLS—NEW PATENT.

BYELLIAM KILMEN, engraver, Sheffield: Improvements in manufacturing rallway and other axies and wheels; and in machinery to be employed is such manufacture.—1. The inside surface of the tyre, after being bent into a circle, is raised to a welding heat, by placing it in a hollow fire or closed hearth, after which it is haid on a block, and the spokes, previously heated at one end, are successively welded to it. The nave is composed of two half naves formed of bar iron colled into rings, with the internal hollow of less diameter at one end than the other; and the inner ends of the spokes are arranged upon the face (with the smallest bore) of one of the hilf maves, and the corresponding face of the other half nave lad on them. Care is taken to leave a space between each pair of spokes, and to punch holes in them, in order that the inside surfaces of the half naves may be welded together at those points. The nave and spokes are beated to the welding point by being placed above the fuel in a furnace, the top of which is made moveable for the purpose of admitting the wheel, after which they are welded together by swages, and the small ends of the half naves welded over the ends of the spokes. Or, two chains, united by a right and left hand screw-coupling, and passing through the centre of the wheel, are attached to the opposite sides. The wheel is placed in a projecting hearth above the fuel in and when heated to the proper degree of temperature, the chain is tightened and the weld farmed. Instanced welded to a straght bar of iron, which is then bent to the required shape around the ends of moveable blocks arranged to form part of a circle, with intervening spaces to receive the spokes.—2. To give the necessary roundity to the tyre a bed plate is employed, which has ceatral vertical shaft, on which the weel is placed, and is five to revolve thereon. Around the rim are two pairs of a full distribution to the tyre of the purpose of terming the otyes, the patentee employs revolving

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

H. and R. Smith, Birmingham, deflective plate-gas burner, W. Cook, Regent-street, hydraulic gas stove. A. Hills, Woodside, Croydon, metallic carboy basket.—Mechanics' May

Constunication between Railway Carmages while in Motion.—The Railway Clearing House Committee, at which all the leading railway companies are represented by their chairman, or other delegate, have, it appears, at the suggestion of Capt. Huish, urged upon the railway companies the importance of giving facilities for the guards walking safely along railway trains when in motion, by which means, it is said, accidents may often be averted. This, it will be remembered, was the plan carried out by Mr. Wyndham Harding, on the Bristol and Glouesster Railway, some years ago, where it was the means of preventing several accidents. It was also, after communicating with Mr. Harding, and receiving a great number of suggestions as to the best means of communicating between guards and drivers of railway trains, selected by the Railway Commissioners in 1847, as the system of communication best promising success. It is to be hoped that it will now be generally carried out. In the event of a carriage, or track, catching fire, of an axle heating, a deer slying open, or even suspicion that anything is wrong, the guard should be able to get to any part of a train at once.

Lat.	JOINT-STOC			2 1 mm 2 107
Bhares.	Companies.	Paid.	Div. p. cent.	Price.
22,500	Australasia	£40	£8	£244
20,000 1	British North American	60	6	** 404
20,000 6	Colonial	25	8	64 64
20,000 0	Commercial of London	20	6	204
	London Joint-Stock		6	
	London and Westminster		6	
	National Provincial of England		5	
	National of Ireland		6	
	Provincial of Ireland		8	
	South Australia		minn, elikocoi del	177 18
	Union of Australia			
	Union of London		6	1 202 208
00,000	Cuion of Bolldon	En 10	**** ** ** **	was a second about the

(From the Phymouth Journal.)

WHEAL FRANCO.—There is no alteration since our last.

Tavarcock Consolts.—The lode in the shaft maintains its size, but there is considerably more print and soft para mixed with the mundle.

NOSTH TAMAL.—There has been a very valuable discovery made in this mine, the full particulars of which we hope to give in our next. The ore contains by easay 220 cas, of silver to the ton of lead.

Breen TOS and Versuss Merris.—In clearing the old engine, it is discovered that a level has been driven 7 fms. under the adit by the ancients, and very fine stones of the are found if the level. The other parts of the mine are without alteration. Capt. 5. Sectombe inspected the mine on Monday.

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The Mail sental s East It 30,280 Wes arrived also br by the also last transm coin, g value of cases to

Gt. Souti Great We Lancaste Lancaste Lancaste Lancaste Lancaste Lancaste Lancaste London a London a London de London de London de Manchest Midland de Midland de Monkland North Bris Sectish C Strewsbur De South-Ear Taff Vale Ulstr ... Waterford West Corr and Vork a

Current Prices of Stocks, Shares, & Metals.

Bank Stock, 7 per Cent., 1984	HANGE, Saturday morning Eleven e'clock. Belgian, 44 per Cent., 884
A per Cent. Reduced Ann., 911	Dutch, 2 per Cent., 33
3 per Cent. Consols Ann., 924 4	Brazilian, 6 per Cent., 821
31 per Cent. Ann., 924 1	Chilian, 6 per Cent., 95
Long Annuities, 84	Mexican 5 per Cent., ex Coup., 261
India Stock, 104 per Cent., 257	Russian, 5 per Cent., 107
3 per Cent: Consols for Acc. 924	Spanish, 5 per Cent, 161 7
Excheq. Bills, 1000t., 14d. 42 45 46 pm.	Ditto 3 per Cent., 35

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and August, and the balance from last account amounted to 7811. 11s. 10.
making 12001. 13s. 10d., from which the dividend of 640t. is to be deducted.
Trelawny Silver-Lead ores, of 108 tons, were sold this week, realising 1815 as per ton.

At the Fowey Consols account, for May, June, July, and August, a profit of 2341. 17s. 11d., was carried to the reserved fund, now amounting to the sum of 64811. 18s. 2d. The quantity of copper ores sold during the four months realised 12,0521. The mine is represented to be without any positive improvements, although there are some speculative points about to be developed.
Craddock Moor account showed a balance of 231. 5s. 1d. in favour of the adventurers, and a call of 10s. per share was made.

Gonamena account for two months shows a balance of 2871 in favour of the adventurers; and the agent's report represents the mine progressing favourably.

At the East Godolphin account, the financial statement, for the three months ending Sept, showed balance of 5831. 19s. 7d. against adventurers, and a call of 3s. per share was made. The manager, in his report, represents the operations to be progressing in a very satisfactory manner, and the machinery completed, and in good working order, and anticipates that, at an early day, there will be several lodes opened on, which will prove productive.

Wheal Blencowe adventurers held their meeting on the 23d Oct., when the accounts for four months ending September, were audited, and a balance of 338d. 9s. 1d. was found against the company; a loss of 237l. 8s. 8d. during that period, and the difficulty of obtaining the calls, induced the meeting to determine upon dissolving the present company, and to pay off all liabilities. A call of 28s. per share was declared.

At Bukhc Cousols meeting, the adventurers resolved on increasing the amount of capital by the issue of 1000 new shares at 6l. per share, 2l. payable at once, which will enable them to pay off all existing liabilities, and place the mine in a permanent and profitable position, as will

The following arrivals of specie have taken place since our last:—The Royal Mail steam-ship Canada, brought on freight 74,0001. The Peninsular and Oriental steam-ship, Hindostan, arrived on Tuesday with the heavy portion of the Bast India and China mails, bringing on freight 73 packages of specie, value 30,2801. sterling.

WEST INDIA AND PACIFIC MAILS.—The Royal Mail steam-packet, Chyde, strived at Southampton, on Friday morning, with the usual mails; the Chyde also brings mails from the west coast of South America, received at Panama by the Pacific Steam Navigation Company's ship, New Granda, which vessel also landed treasure, value 8584,366, for conveyance across the isthmus and transmission to England. The freight brought by the Chyde comprises gold coin, gold dust, and bars; silver dollars and bars on merchants' account to the value of \$820,303, or (say) 164,0642, sterling; also 195 packages pimento, 11 cases tortoiseshell, 11 half-barrels arrowroot, and 42 packages sundries.

EXPORTATION OF THE PRECIOUS METALS.—The following are the official returns of the exports of gold and silver from the port of London for the last week:—Gold coin to Hamburgh, 28900; ditto to Havre, 160 ounces.—Silver coin to Dunkfrk. 69,000; ditto to Mogadore 5176—Silver bars to Belgittin, 12,000; ditto Rotterdam, 50,000

Foreign gold, in bars ... per os. £3 17 9 | New dollars per os. £0 4 10 , Portugal pieces... 0 0 0 | Silver in bars (standard) 0 4 111

RAILWAY TRAFFIC RETURNS.

Names of Railways	Zeng 1849	1848	Present ac-	Price p.share	Div. 1848	Traffic I	Return:
Aberdeen	33	16	1,000,547	151 15		£ 508	OWILL
Belfast and Ballymena	371	372	514,968	191	5*	442	423
Birkenhead, Lancashire, & Chesh	. 19	13	1,089,804	87	-54	700	710
Bolton, Blackburn, & West Yorksh		-	181 786,384	5	·w	448	230
Bristol and Exeter		75	2,660,400	1:53 W	0(3942	1
Caledonian		144	5,149,320	142 184	1801	7077	5007
Chester and Holyhead		594	3,358,217	104	A111	1607	1766
Dablin and Drogheda		35	778,565	28		742	790
Dublin and Kingstown	7.2	217	395,915	19,000	1	866	838
Dandes, Perth, & Aberdeen June	479	475	544,554	TAIDD	61	1022	904
East Anglian (Lynn to Ely)		554	1,947,446	199 1500	4	758	707
Raat Lancashire		24	2,628,519	19 44 1981	1.8(1)	3197	1873
Sastern Counties and Norfolk		295	12,027,069	aj 74 Z:	-	15846	16537
astern Union	78	504	1,782,703	13.	1,777	1506	1377
dinburgh and Glasgow	671	52	2,923,199	31	6	3547	3517
dinburgh and Northern		34	2,241,276	10	2	11125	1929
lasgow, Paisley, and Ayr	1024	74	9,874,330	59	P STEE	2954	2661
lingow, Paisley, & Greenock	28	98-	852,846	101	2	1066	1013
it. Northern & East Lincolnship	0 143	1000	5,128,756	78 1	51	3137	-
t. Southern & Western, Ireland	1 1684	1104	3,552,589	284	61	3561	3827
reat Western	2304	2064	11,867,042	60 624	6	20370	19829
ancaster and Carlisle	90	70	1,476,102	50	14.6	3652	2167
ancashice and Yorkshire	206	127	10,063,862	61	5	12315	10583
liverpool, Crosby, & Southport.	. 13	100	84,455	34	1	74	85
ondon and North Western	478	428	26,231,635	116	7	41489	39828
ondon and Blackwall	0.0	1001	1,299,675	100	1-12	632	336
ondon, Brighton, & South Coust	170	1624	6,502,600	724 24	24	9941	9076
ondon and South-Western	2204	194	7,874,259	31 314	54	9836	9813
ondonderry and Enniskillen	144	144	185,739	diam'r.	1000	138	132
fanchester, Shetfield, & Lincolnsh	157	94	6,598,260	204	5	4743	2086
fidland Company	471	423	15,133,779	48 478	541	21939	21447
fidland Great Western (Irish)	50	361	725,332	224		1256	1184
fonklands	36	83	486,245	Sec.	6	was programmed and	
North British		. 53	3,649,054	111	5.5	3854	2577
cottish Central	10145	23	1,364,228	13174 H	dis	1300	1047
brewsbury and Chester	43	950	969,618	12	5	1480	1284
hropshire Union		29	minute High	1000	10,000	326	RIGHTAL)
outh Devon	071	1604	1,909,231	OWNER OF		1550	1301
outh-Eastern	1894		8,666,007	19# ±	0.0	11253	9228
aff Vales	38	36	879,110	Septist of	1	1849	9149
llater	36	30	723,829	452	Mell M	793	. 8G4
Waterford and Limerick	25	1987	512,894	SEC BUSYS	DIV I	I'm a mort	91 (500)
West Cornwall	13	-	Ebs on tells	BY TRUST) ITELY	999	310
Whitehaven Junction	12	18	150,879	0.90	100-01	188	174
York, Newcastle, & Berwick	2904	2423	6,827,849	18 174	17.00		13038
fork and Morth Midlend	956	234	4,983,618	20 19	1	7171	7810

Shares Company Paid Price Shares Company Paid Price Shares Company Paid Price Company Paid Price Company Paid Price Company Paid Price Paid						
Shares, Company. Faid. Price.	Shares. Company. Paid. Price.					
1000 Abergwessin 9 9	2048 Runnaford Coumbe Tin 4 5					
1000 Antimony&Silver-Lead 8	128 South Caradon 5 200					
1024 Mailtowinden	1100 South Dolcoath 8 1					
128 Baineon Consols 424 50	256 South Molton 5 - 12 13					
1000 Barristown 58 14 2	256 South Mokton 5 . 12 13 23 236 South Tolgus 16 . 63 60 256 South Treauny 28 . 6 . 2000 South Wales Mining Co 1 14 128 South Wales Mining Co 204 380 400 124 South Wh. Frances . 160 280 300 256 South Wh. Josiah 14 . 5 6 . 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
3650 Bawden	2000 South Wales Mining Co. 4. 1 14					
1280 Birch for & Villier 102 68 7	128 South Wheal Basset 204 380 400					
5000 Bitsland Consols 1 54 100 Botaliack182 30	256 South Wh. Josiah 14 5 6					
120 Brewer	10000 Southern & Western Teleb 94					
120 Brewer	280 Spearne Moor 30 40 94 St. Ives Consols 80 128 St. Michael Penkivel 5 101					
- Ditto ditto, scrip 10 10 2400 Bryn Arian 2 6 64	128 St. Michael Penkivel . 5 . 104					
2409 Bryn Arian 2 6 6						
125 Badnick Consols 524 25 1000 Callington 22 7 8 1000 Camborne Consols 7 54 10	9600 Tamar Consols 3 74 8					
20000 Camporne Consols 7 54 10	10240 Tuvy Consols					
20000 Cameron's Steam Coal 7 1 256 Caradon Copper Mine 94 14 256 Caradon Mines 224 10	1000 Stray Park					
156 Carata United 14 6 8	58 Tokenbury 170 10					
200 Carason Children 226 Carason Children 200 Cara bres 15 105 3000 Cara bres 16 7 114 Charlestown 220 300 Combhawn 54 44 123 Combra 40 70						
3000 Cartnew Consols 14. 7	256 Trehane 12 28 5000 Treleigh Consols 6 34 4					
114 Charlestown 220 — 500 Combian 54 44	2000 Trenance 3 — 96 Tresavean 10 95 120 Tretheilan 5 15 17					
123 Comfort 45 70	120 Tretheilan 5 . 15 17					
2560 Condition 20 10 10 50	120 Treviskey and Barrier 130 . 130 1000 Tyllwyd 21					
1000 Coombe Valley Quarry 41 5						
900 Court Grange 7 10	256 Wellington Mines 25 35 128 West Buller 10 375					
1000 Coombe Valley Quarry 41 5 1000 Copper Beston 12 6 900 Conft Grange 7 10 212 Cruddock Moor 234 5	256 West Caradon 20 105 110					
500 Cubert Mine 124						
212 Crandock Moor	- West Par Consols 21 512 West Providence 9 . 28 30 200 West Seton 45 180 190					
845 Devon&CourtenayCon. 74 14	120 west trethenan 9 9					
1924 Devon Great Consols 1 185 190						
1000 Durnode 2 5 182 Dolcotti 30 15 3 10000 Durnam County Col. 45 5 3 10000 Durnam County Coal 45 5	256 West Wh. Friendship. 9 8 3725 West Wheal Jowel 12 4 1 4 256 West Wheal Togus 80 71 10 256 West Wheal Treasury 19 10 15 1024 Whilddon Mines 45 2					
10000 Durnam County Coal. 40 . 9	256 West Wheal Tolgus 80 74 10 256 West Wheal Treasury 19 10 15					
3000 Dyringwm	1024 Whiddon Mines 41 2					
	107 Wheal Admis 13080 100					
1024 East Buller	1000 Wheal Agar 6 256 Wheal Albert 10 1					
2048 East Crowndale 64 4	240 Wheal Anderton 28 5					
1024 East Buller 1 3 1 1 1 1 1 1 1 1	128 Wheat Ann					
94 East Wheal Crofty 125 65 70 128 East Wheal Rose 50 630 630	120 Wheat Bai					
- East of Scotland Iron Co. 5 12 123 East Wheal Seton 14 10	256 Wheal Benny. 14 2 1021 Wheal Bray. 10 10 10 256 Wheal Blencowe 21 12 2324 Wheal Calstocle 9 20 25 256 Wheal Fortexene 15 388 Wheal Franco 27 11 12 23 24 25 25 25 25 25 25 25					
123 East Wheal Seton 14 10	256 Wheal Biencowe 21 12					
1280 Esgair Lice	256 Wheal Fortescue 15					
1024 Freidd Llwydd Mines 14 34	100 Whell Helly carres - as 25					
4000 Gen. Mining Co. for Irel. 12 14 256 Gonstmena 444 16 128 Goomyrea 4 2	1024 Wheat Lawrence 24.: 25					
128 Goonvrea 4 2	512 Wheal Mary App 5 96 974					
256 Grambler & St. Aubyn 80 10 100 Great Consols 1000 220 240 512 Gt. Wh. Rough Tor Con. 244 18 20	5000 Wheal May					
	3000 Wheal Penhale 8 6					
6000 Growa Slate Company . 5 5 6000 Heiguston Down Con 12	210 Witeal Prospect 4 7 120 Witeal Reeth 41 150					
4500 Hennock froh & Tin 21s 21s	128 Witeni Rose 60 3					
256 Herodstoot 27 12 13	120 Wheal Reeth					
256 Herodstoot 27 12 13 10000 Hibernian 124 12 1000 Holmbush 22 6	512 Wilesi Sobilla 58 7					
1024 Kingsett and Bedford 14 39 44	128 Wheat St. Ann 30 35					
787 Kirkeudbrightshire 84. 24 2018 Lamherece Wh. Maria 8. 24 252 Lanarth Consols 4	550 Wheal Trescoli 101 19 20 260 Wheal Trelawny 72 85 87					
252 Lanarth Consols 90 40 50	260 Wheal Trelawny 72 85 87 256 Wh.Tremaine(St.Ervan) 94 24 1024 Wheal Tremayne 94 54					
160 Levant 200 225	267 Wheat Tryphena 140 30					
1000 Lewis 17 92 10	1000 Wheal Vincent 22 7					
3600 Llynyi Iron 50 50	184 Wheat Vyvyan 60					
253 Lostwithiel Consols 23 10 6000 Marke Valley 10 ‡ 1	DE TOTAL PANERS AND THE PARENT AND T					
6000 Marke Valley	FOREIGN MINES.					
20000 Mining Co. of Iroland 32	5000 Alten Mining Company 144 . 2 2 2 15000 Asturian Mining Co 15 . 24					
256 New East Crowndale. 34. 24 100 North Pool 45 530						
140 North Roskenr 51 150	3000 Bolanos 150					
100 North Pool	10000 Brazitian Imperial 23 31 4					
12 Old Wheal Prosper 23 . 2	10000 Australian 1					
128 Par Consols 556 650						
1245 Pengelly Tin	4000 Guadalcanal					
1024 Penzance Consols 22s 3d 4 512 Plymouth Wh. Yeoland 61 6	5051 Mexican Company 594					
200 Polsaith Consols 54 4	5000 National Brazilian 30 4					
9500 Rhoswiddel&Bacheidden10 10	104000 N Reit Australasian 10s					
10000 Ditto New 7 61	11000 St. John dei Rey 15 10 101					
10000 Rhymney Iron 50 13 10000 Ditto New 7 61 1000 Rosewall Hill 1 5 256 Rosewarva Mines - 12	7000 Royal Santiago 10 5 11000 St. John dei Roy 15 10 10± 13174 United Mexican Av 25± 4 10,000 Worthing (S. A.) 2 2±					
AUSTRALIAN SHARE						

AUSTRALIAN SHARE MARKET .- JULY 18.

Name.	Shares.	Amount.	Paid-up.	Present Price.
Adelaide	2000	£5 0 0	. £5 0 0 .	£2 0 0
Belvidere	640	. 5 0 0	. 3 10 0 .	6 0 0
Burra Burra	2464	. 5 0 0	. 5 0 0 .	160 0 0-163 0 0
Enterprise	1000	. 3 0 0	3 0 0 .	4 4 0- 6 5 0
Greenock Creek Mount Remarkable	300	. 5 0 0	. 5 0 0 .	Mary and Charleston II
Mount Remarkable	1000		. 22 10 0 .	STATE OF STA
Montacute	100	. 55 0 0	. 55 0 0 .	011 0100 and 10 1784 to
North Kapunda	4440	5 0 0	. 5 0 0	1 1 0-1 76
Paringa	9000	1 5 0	es 1 5 0 0	1 10 0 0
Port Lincoln	600	. 8 0 0	. 3 10 0 .	5 10 0 hu hall cal
Prince Albert Princess Royal	1000	. 5 0 0	. 2 0 0 .	. 0 15 0
Princess Royal	400	. 50 0 0	. 41 0 0 .	35 0 0
Royal Mining Company	5000	10 0 0	. 0 10 0 .	0 7 0-0 10 0
Wheal Gawler	1280	. 10 0 0	. 10 0 0 .	18 0 0
Provincial				
Wheal Grainger	be end ins ide vide	J. S. WHOCH IS	den ariend as	6, 0, 0

LATEST CURRENT PRICES OF METALS.

LONDON, NO	VEMBER 2, 1849.
RNOLISE REON.6 Per fon.	White ditto
board at Newport* Do., do., for tin-plates, boiler 4 to 0 plates, &c., ditto	Spanish in bond
Pigs, in Staffordahre	FORMON TIN 8 Banca, in bond
Gouried	IC Charcoal
Sheets, sheathing, & bolts, p. lb. 0 0 91	QUEUKSLVERO per lb. 2s 11d. 3s

Terms.—a, 6 months, or 2½ per cent, dis.; 6, ditto; c, ditto; d, 6 months, or 3 per ct dis; c, 6 months, or 2½ per cent, dis. c, f. ditto; c, ditto; k, ditto; t, ditto; k, net cash i, 6 months, or 1½ p. c. dis.; c, ditto, tå dis. Cold. blast, free on board in Wales.

prevailed, of paying he from upon what is called "makers scdp," has received a check, one of the principal makers at Glasgow having refused to honour his own engagements to the extent of several thousand tens, on the ground of some alleged dispute between thimself and the original purchaser. There is, consequently, a very natural disposition manifested by dealers to get rid of these documents, until their value and security can be placed beyond all question. In spelter, during the week, there has been a speculative domand for the article, and we have to note a rise of 15s. per ton. The places are quiet in other metals no siteration.

LIVERPOOL, Nov. 2.—We have no change to report this week in our market for iron and metals. Only a limited business has been done in manufactured iron, at last week? prices. Soutch pig continues dull, but without any further decline. In copper, lead, and size, there have been very few transactions.

GLASGOW, Nov. 1.—The market has been very juactive this week. The transactions have been light, and not numerous; and the price has undergone no change. We quote the price of Mixed Nos. at 42s. 6d.—cash.

LEAD ORES

	Sold at Bagillt, on th	e lat Novemb	eren al traction for testinal.	
Mines.	Tons.	Price.	Purchasers,	-
Newtonards	62	£10 1 6	Mather & Co.	
Foxdale	43	15 11 0	Walker, Parker, & Co	o.
Machynlleth	40	10 10 6	Newton, Keates, & C.	ò.
ditto		10 8 6	ditto	a
ditto	201	9 6 0	Walker, Farker, & Co	o.
To	ial tons		171.	-
	Sold in Londo	n, Oct. 29.	WILLIAM OF THE PROPERTY OF THE PARTY OF	
East Tamar	70	£13 6 6	Somers.	
South Tamar	59	16 17 6	Tamar Company.	
	Sold at Li		1275 677 2 7 5 65	
Trelayney			Pontifex and Co.	
Trehane	60	22 10 6	ditto	
Tregorden		29 10 6	Tamar Company.	
Particular and the second of t			and a second	
	BLACK	TIN		*

			-44		
Mines.	Tons.	Price per	Ton.	Purchasers.	_
South Friendship Wh	Ann. 14	41 2	6	Daubug,	
Wheal Friendship		37 0	0	Enthoven and Bisson Co.	
ditto		27 0	0	Bissoe Company.	
Great Polgooth	12	41 10	0	ditto	10.00
ditto	12	41 10	0	Williams and Enthoven.	-
ditto	12	41 10	0	Williams and Co.	
	13				
ditto	18	41 10	0	Calenick Smelting Co.	
ditto	. 0	39 9	C	Williams and Co	

ditto ditto ditto	*******	13		41 10	0 C	aubuz. alenick filiams			1	
obsete o	Sampled (PER O	RES.	Redruth	Non. 1			×
Mines.	Ton		rice.	4	Mines.	-	Tons.	11.7	Prio	
North Rosk	ear 104	£4	8 0	A Section	Consolidat		. 76	£	5 19	0
di	to 101	6	3 6	4.4000	d	itto	75		7 5	6
di	to 99	6	17 6		d	itto	61		6 10	6
di		6	9 6		. d	itto	56		5 19	0
	to 85	5	18 0	CORP. C. P. J. P.	d	itto	41		3 5	0
di		4	12 0	14"	Tincroft .	*****	.112		3 0	0
di		5	2 0		d	itto	72		4 5	0
	tto 59	2	1 6	2010 1.44	d	itto	55		1 10	. 0
di	to 55	5	10 0	MATERIA	1- 56 d	litto	50		1 7	6
	to 54	6	11 6		d	itto	49		4.18	- 6
46	140 400	LIFE STREET	0 0	COLUMN TO A STATE OF		College.	notaro		7 77	1 2

ditto	101		6	3	6	- 1	ditto 75 7 5 6
ditto	99		6	17	6		ditto 61 6 10 6
ditto	88		6	9	6	-)	ditto 56 5 19 0
ditto	85		5	18	0	0	ditto 41 3 5 0
ditto	62		4	12	0		Tincroft 3 0 0
ditto	60	****	5	2	0	10.	ditto 72 4 5 0
ditto	59		2	1	6	444	ditto 55 1 10 0
ditto	55		5	10	0	AT.	ditto 50 1 7 6
ditto	54	****	6	11	6	14.	ditto 49 4 18 6
ditto	47		4	8	0	· CV	ditto 45 4 14 6
ditto	46		1	19	0	111	ditto 37 4 16 0
Wh. Seton	. 95		3	12	6	-5	ditto 36 2 11 0
ditto	85		2	18	0	265	Fowey Consols 76 6 14 0
ditto	79		3	10	0	no.	ditto 73 2 6 0
ditto	78		5	12	0		ditto 71 6 15 0
ditto	62		2	8	0		ditto 68 5 7 0
ditto	58		4	14	0		South Wh. Basset.112 3 5 0
ditto	57	****	4	16	0	of the	ditto 80 13 10 0
ditto	50		5	14	0		South Wh. Frances 71 8 16 6
ditto	46	** **	6	15	6		ditto 56 7 5 6
North Pool	.110		2	13	0		ditto 26 11 16 0
ditto	99		5	16	6		Wh. Henry 65 5 2 6
ditto	. 82	** **	5	16	6		ditto 33 · 3 13 6
ditto	75	****	2	18	6	55	South Roskear 62 3 19 0
ditto	74		5	14	6	N.F.	ditto 22 0 13 0
ditto	62	****	3	2	-0	mu	Wh. Clifford 23 4 13 0
ditto	60		2	18	6	00	ditto 20 2 0 6
ditto	38		1	.1	6		Wh. Union 7 6-18 6
Consolidated	.100		5	6	0	53	Pembroke 5 2 12 0
ditto	78		6	3	0.	418	Wh. Nancy 4 7 0 0
ditto	77		5	14	6	- 40	Todd's Regulus 2 11 0 0
SERVED BUILDING BUILDING				W.C	PERT	r	RODUCE.
\$0.90 to 9.90 to	Calc.		10		AAA	4 1	MODULE.

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines Royal						
Vivian and Sons						
Freeman and Co						
Grenfell and Sons						
Sims, Willyams, and Co	632		2588	1	10	
Williams, Foster, and Co						
Schneider and Co	125		573	13	0	H
OF BUILDING ALCOHOLD BUILDING TO SELECT TO SEL	1000	SOO CREY AD	3	100	0.50	

COPPER ORES

Sampled Oct. 11, and Sold at Swansea, Nov. 1, 1849.

Mines.	Tons.	Prod. Pr	ice.	Mines.	Tons.	Prod.	Price
				Berehaven	123	104 67	13- (
ditto	71	. 2317	12 6	ditto	121	101 7	12 (
ditto	68	. 231 17	15 0				
		. 2317					
				Burra Burra	62	294 23	16. (
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COMPANIES BY WHOM THE ORES WERE PURCHASED.

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English Copper Company	197	£2697 15	6.
Grenfell and Sons	267	2602 12	0
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Vivian and Sons			
Williams, Foster, and Co.			
Schneider and Co	64	1434 14	0
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British and Foreign Copper Company	33	817 11 1	6

24,854 1 6 Copper ores for sale Nov. 15.—Burra Burra 70, ditto 69, ditto 63, ditto 67, ditto 64, arto 60, ditto 59, ditto 50, ditto 68, ditto 69, ditto 50, ditto 69, ditto 69, ditto 69, ditto 50, ditto 51, ditto 52, ditto 54, d

MINING APPOINTMENTS FOR NOVEMBER.

- MINING APPOINTMENTS FOR NOVEM
 3. West Wheal Jawei pay-day and setting
 5. South Frances accognent on the mine.
 7. Devon Consols and other unines sampling.
 8. Ticketing at Andrew's Horsi, Redruth, Carn Brea, and other un
 9. North Pool mine setting day.
 14. United Consols and other unines sampling.
 15. No Ticketing this week:
 16. East Wheal Roote pay-day.
 19. Traviskey and Barrier account.
 20. East Wheal Crofty account on the mine.
 21. Devon Consols and Great Consols account.
 East Crofty and Wheal Seton, &c. sampling.
 23. Ticketing at Truro: Devon Consols and other mines.
 23. Shorth Pool mine pay-day.
 24. Wh. Seton and Treviskey pay-days.
 25. Treastean and Treviskey pay-days.
 26. Carn Brea and other mines sampling.
 27. Treastean and Treviskey bay-days.
 28. Carn Brea and other mines sampling.
 29. Ticketing at Truro: United and Consols, Sec.

NOTICES TO CORRESPONDENTS.

**Studenti', be noticed, but as an earnest to us of their good faith.

**A Student'' (Chester-le-Street).—The most celebrated mining schools are those of Freiberg, in Saxony, and Clausthal, in the Harts district, in Hanover. Lectures are deliberg, in Saxony, and Clausthal, in the Harts district, in Hanover. Lectures are deliberated by the students of the students

Glasgow).—The manufacture of Britannia metal on a large scale first too Sheffield, about 1770, by two individuals of the names of Jessop and Hancock An Old Subscriber."—A report of Mr. Remington's bridge, exhibited at the Surrey Zoo logical Gardens, was inserted in the Missing Journal of the 7th and 11th Sept., 1847.— Several lotters on the subject appeared on the 2d and 16th Dec., and 6th January last

Several letters on the subject appeared on the 2d and 16th Dec., and 6th January inst.

"R. C. G." (Gunnis Lake).—Red ochre varies in price from 5s. to 15s. per ton. If a sample is for rarded, we will ascertain its value.

"J. K." (Llandelo).—Mr. Gurney's lecture, at the Polytechnic Institution, was published in the Journal of the 3d March; a practical description of his invention will be found in the Journal of the 23d of December, 184s, written by Mr. Forstor, of section Delaval Colliery. Mr. Matthias Dunn also forwarded a communication on the same subject, which appeared in our columns of the 24th March last.

IMPROVED AIR-ENGINE.—Mr. Bagga's letter, in reply to Mr. Weston, did not reach us in time for publication in this week's Journal. It shall, however, appear in our next.—Mr. Curr's 'e ters are declined, as calculated to uselessly prolong the disputation.

We are compelled to postpone numerous answers to correspondents, also everal leading articles.—Mr. Mitchell's papers, On the Metallurgical Treatment of Ores, will be continued in our next week's Journal.

a It is particu'a ly requested that all communications may be addressed-

TO THE EDITOR,
Mining Journal Office,
26, Fleet-Street, London.
And Post-office orders made payable to Win. Salmon Mansell, as acting for the proprieto

THE MINING JOURNAL Railway and Commercial Sagette.

LONDON, NOVEMBER 3, 1849.

he Mining Journal is published at about Eleven o'clock on Saturday morning, at the office, 56, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

The great and gratifying increase of the iron trade in the principality of Wales is one of the most surprising circumstances in the domestic history of that district which it is possible for us to lay our hands upon; and, as might be expected, the increase of its population has proceeded nearly in the same ratio; for in Wales, as in every other place, sustentation, and individuals to receive it, stand in a close and intimate relation to each other. The total value of iron shipped firm the counties of Monmouth and Glamorgan in 1847, fell nothing short of four millions sterling; and the value of coals shipped during the same period approached to nearly two millions sterling. In 1820, the value of coals and iron raised in this district of the principality did not amount to an eighth of the value realised in 1847. We point to these magnificent results in the industrious branches of our domestic occupation, as proofs of the dilidustrious branches of our domestic occupation, as proofs of the dilidustrious branches of our domestic occupation, as proofs of the dili-gence and success with which they are, and long have been, pro-secuted in the great mining fields of this country. When such amaz-ing results as these are wrought out by the judicious application of capital, it would be one of the strangest of conceivable circum-stances, if that vivifying element was not largely attracted to this branch of trade—and it is so attracted. We are happy to say, that if there is any prevailing want in the coal and iron districts of the kingdom, it is not the want of capital or of occupation, but of an enkingdom, it is not the want of capital or of occupation, but of an enlarged market for our raised produce in this department; and even to that improved and enlarged area of sale, we expect shortly to have the pleasure of pointing the attention of our readers.

We have but a word or so to say in reference to the culminating disturbances at the Cape. It does not matter a single straw to us, whether those who are promoting the present fermentation in that colony are of British, Dutch, or mixed origin; whoever they are, colony are of British, Dutch, or mixed origin; whoever they are, and from whatever branch of the European family they sprang, they have clearly yet to learn the first duty of good subjects. Protection they have long had, heaped up and brimming over. It is not yet a twelvemonth since the people of this island had to pay a million and a half sterling, to rescue these same Capelanders from the fangs of their Caffre neighbours, whom they had provoked, and from whose savage hands the sword of England alone released them; and now on the first occasion, and no very trying one either, in which it was in their power to give a proof of alliegance to the British Crown, and of gratitude to their deliverers, they are ready to wheel round and trample on the authority of the Crown whose subjects they are, and on the memory of the obligations they have so recently they are, and on the memory of the obligations they have so recently incurred. The case between them and the Government is shortly this:—The cabinet, deliberating long and deciding late, at length determine that it would be desirable and expedient to locate a limited number of convicts, in some part of the large unoccupied district subject to the Crown, at the Cape of Good Hope; but the leading lights of the colony, in their transcendental wisdom, thought otheringhts of the colony, in their transcendental wisdom, thought otherwise; they declared it to be undesirable and inexpedient, and flew up as fierce and as fiery as so many rockets, protesting their determination to resist the purposed measure. It is no longer, therefore, a question of policy, but of power; and the only alternative presented by the existing state of things is, whether the Government is able to carry out and accomplish its intentions, or whether the colonists are able successfully to resist them. With regard to transcentation as a secondary number of the colonists are able successfully as the colonists are able successfully to resist them. portation as a secondary punishment, our opinions are before our readers, and at present we have nothing to add to or take from them. We have, for a series of years, been building new prisons, and trying new systems, at home, with results that leave the question quite undecided, or which point to transportation, on a limited scale, as being as good a method as any within the compass of our resources to devise. But the politicians of the Cape have far outsailed this phase of the subject; they have left it a long way in the horizon behind them, and have decided with an inexpert haste, characteristic of ignorant people, that it shall be, if they can make it so, an impossibility in their settlement. We should be happy to see the wishes of the colonists consulted, and even their prejudices respected, wherever it does not interfere with the general interests of the empire to give them that consideration. empire to give them that consideration; but, in this case, we uld have thought a sense of their permanent obligations to the cently delivered them out of the hands of their aboriginal neighbours, would have taught them a more modest and submissive lesson. As to the result of this dispute we have no misgivings; for we are confident that the noble earl, who so well and so successfully we are connecent that the hoose earl, who so well and so successfully conducts, for the Crown and people of England, the administration of her immense colonies, will not, in a case in which all law, all practice, and all precedent is on his side, allow the Government to be foiled in the execution of a fully deliberated measure by the glare of a few fire-brands for the moment burning at the Cape

Sourh Devon Rauway.—The directors of this company have, in compliance with the suggestion of the shareholders' committee, resolved to submit to the special meeting, to be held on the 6fth of November, a proposition for an application to Parliament for powers to rake the sum of 575,000t, to be appropriated to the payment of the debenture debt, and clear the concern from all outstanding liabilities. This sam will constitute a distinct capital, to be called the "Mortgage Debenture Capital," divided into 57,600 shares of 10L sach. Of these shares 47,800 will be applied exclusively in redemption of the debenture debt, amounting to 478,166t; the remaining 9700 shares to be applied exclusively to clear off outstanding liabilities on the capital account.

THE PILOT STEAM-TOWING COMPANY.

It is not because we see an array of well-known names—legislators, bankers, shipowners, and philanthropists—at the head of the Pilot Steam-Towing and Ship Rescue Company, that we augur favourably of the success of that undertaking; but because we believe that an addition to the mercantile steam-tag service of this country has long been wanting. We except no port in the United Kingdom from that remark. London and Liverpool may be better provided than other places; yet there is ample room for the employment of more steamers, of the description mentioned, in these, the two principal ports, and, as certainly, plenty of scope in the way of constructive improvements. "Anything will do for a steam-tug" was the notion that prevailed when that new mode of accelerating the ingress and egress of sailing vessels was first applied; and, up to the present moment, the adaptation to them of admitted improvements in model, steam equipment, and propulsive application, has been proportionately slow, both in London and Liverpool. And if we add halfadozen other ports, such as Bristol, Hull, Newcastle, and Sunderland, each more or less imperfectly served, and with similarly unimproved steam-tugs, we have then to notice that the scores of other scarcely less un portant harbourages are wholly without what the Shipping Gaestle, referring to the same subject, not inaptly describes as "such fine-weather aids and foul-weather secessities as well-appointed steam-tugs."

Here, then, are reasons enough, and to spare, for the employment of capital in a legitimate and, to all appearances, profitable manner. But there are more, and perhaps equally strong inducements for others than the mere money-makers to participate. The philanthropist will find them in the promised provision, held out in the prospectus of the company, of more extensive means (not un-profitable either) for the saving of property from wreck, and of life from destruction; as these steam-tugs, on the sea-board, are to be constructed for the safest possible contention with the st It is not because we see an array of well-known names—legislators, bankers, hipowners, and philanthropists—at the head of the Pilot Steam-Towing and

tugs as are to be introduced by the Pilot Steam-Towing and Sing Access for the pany. It only remains for us to anticipate that our augury of success for the operations of the company will be most profitably accomplished.

THE COPPER TRADE.

A very useful production, entitled "Synopses of the Cornwall Ticketings, from 1800 to the present time, and of the Swansea Ticketings, from 1815 to the same period," by Mr. W. Polkinghorne, of Fowey Consols Mine, which com prises the standård, produce, price, quantity of copper ores sold, amount of money realised, and the quantity of fine copper produced, with respective fluctuations for each year, as well for every six years, exhibiting also the totals and averages for the whole period collectively, will shortly be presented to the public. We have had an opportunity of inspecting the original sheet, which was exhibited at the meeting of the Royal Cornwall Polytechnic Society, at Falmouth—see *Mining Journal*, Oct. 6; and in that Number we gave a brief account of the varied information contained in Mr. Polkinghome's Synopses. The compiler has used much care and discretion in the getting up of his work, which must prove of great utility to all interested in the copper trade. Being on a handsome sheet, which, lung on rollers, can be suspended like a chart, the merchant and miner is enabled to see at one giance the state of the copper market in this century. The different valuations of the standard are denoted each year by coloured lines, differing in length, so that, for the highest, lowest, or intermediate years, the observer, by following the line, can at once obtain the information he requires, without even the trifling research of scanning the columns. The meaning of "standard" and "produce" is likewise clearly defined; and the whole sheet will be found of great interest, from its valuable tabular matter, not only to miners, but to statisticians in general—to the former it is almost indispensably necessary, and will form a valuable adjunct, which should be found in every mining office. An advertisement referring to the Synopses will be found in another column.—Mining Journal. prises the standard, produce, price, quantity of copper ores sold, amount of

Synopses will be found in another column.—Mining Journal.

The French Post-Office Contract For Coals.—The contract for the supply of 21,300,000 kilogrammes of rock coal, for the use of the mail steampackets, for the ensuing year, was adjudicated on Monday last at Paris. The competition is stated to have been greater than usual on the part of the French contractors, and the extensive coal proprietors of that country, against the treaty with those of England and Belgium, who have hitherto had the preference, their coals being of a far superior quality for steam machinery, and at a lower rate than they feel disposed to deliver at, wishing, if possible, to keep up their monopoly. The prices accepted, it appears, varied from 26s. to 30s, per ton, according to the distance they were to be delivered. After a strong contest, the English had the advantage of the contract for 1850, and the Belgians no small portion of the lower prices, as the Director-General was not bound to accept any particular priced tenders. These contracts, and those for the Republican steam navy of France, being given in favour of British coal, creates a great jealousy on the part of the French proprietors of mines, although they know that their collicries are not equal in quality to the foreign, and, therefore, are strongly opposed to the Government making any alteration in the import duties, as it would oblige them to make a material reduction in the exorbitant prices they are now charging the iron forgemaster, manufacturers, railways, and the public generally, as they could not compete with their opponents; for if British and Belgian coal was admitted at a low duty, the consumption in Paris, Havre, Rouen, Lyons, and the chief cities and manufacturing and metallurgic districts would increase, to a great extent, in its favour, and thus put a stop to the monopolised the part of the inhabitants, who chiefly use vood as fuel, Contract for Coals for Arabia.—West Hartley, Clewart's Wall's-End steam and Giasgow hard-splint coal (acreened), Risca black-

ing month of last year, and 2,042,7184. for the same time in 1847. The total for the 11 months this year is 19,015,7904. against 31,764,2394. for the same period in 1848, and 39,648,0734. in 1847.

RAHWAY STORES.—The general specification just issued of stores required by the London and North-Western Railway Company for the year 1850, conveys a very good general notion of the vast amount of materials required for working the traffic of this, the most important railway in the world. The "specification" extends over 25 pages of foolscap. Under the head of "bags, buskets, and ropes," we find, amongst 50 other things, that 1200 baskets are required, and 2729 bags, each to hold \$\frac{1}{2}\$ ext. of coke; 85 cwts. of flax of the best kind, for packing engine-glands; and 60 cwts, of spun yarn. Of "brass and brass-work," 352 cwts. of castings are required; 144 gross of screws; and 59 tons of locomotive tubes; 2238 brashes, and 1000 dozen birch brooms. Of "copper," 8960 lbs, of bolts from \$\frac{1}{2}\$ to \$1\$ inch diameter, \$12,200 lbs, of sheet of various thicknesses and dimensions, and \$12,768 lbs. for fire-boxes, \$\frac{1}{2}\$ and inch thick. In the "coach trimmings, &c.," department, 18,250 yards of canvas are specified, 1040 yards of blue cloth, and 1460 yards of face. Of "coal," 18,104 tons are wanted. Of "crucibles for moulding brass," 2599 are to be contracted for: \$10,000 leaves of gold leaf are wanted: 35 tons of axle-guards are to be endgred for, 50 tons of patent sland bar-iron, 190 tons of the or grate bar-iron, 404 tons of bolts, 13 tons of muts, 102 tons of castings, 48 tons of Lowmoor or Bowling iron, 100 ewts, of nails, 62 cwts, of rivets, 6360 gross of screws, 1343 tons of Staffordshire iron, and 120 tons of rivets, 6360 gross of screws, 1343 tons of Staffordshire iron, and 120 tons of rivets, 6360 gross of screws, 1343 tons of Staffordshire iron, and 120 tons of the season of Lowmoor or Bowling iron, 100 ewts, of nails, 62 cwts, of rivets, 6360 gross of screws, 1343 tons of southern, 28 tons of palm

THE ST. JOHN DEL REY MINING COMPANY.

Size.—A fresh circulate to the shareholders having been issued from the office of the St. John des Bey Mining Company, attempting to refute what I stated quite true that, in my efficial capacity as secretary to the company, I extracted all the information respecting the mortality and bad treatment of the slaves, and handle the same to the chairman, who wrote the cicania, and I cleaned the same to the chairman, who wrote the cicania, and I cleaned the same to the chairman, who wrote the cicania, and I cleaned the same to the chairman, who would have expressed my opinion that the whole of the estatements were untrue, but I and no wish to lose my appointment, and I thought that any person passessing a particle of sense would be the company of the co

consequence is that the month's expenses, as presenten to the numberous, minserted in the Mining Journal, are almost invariably less than the actual costs, or amount expended and become due. Many years since the capital account was closed, as regards everything in the way of stores or machinery, or any article of consumption; the cost-sheet used, therefore, to show monthly the entire debit side of sit the liabilities incurred during the month in Brazil, or of which advice of payment in London was received. Nothing, however minute, was omitted. If 1000L was spaid, or became due for stores, and only 500L worth were consumed, the whole 1000L was entered in the cost-sheet; but some time after Jame, 1847. this system was altered, and an approximate estimate was made, and is still made, of what is known and supposed to be consumed. The defectiveness of such a system is proved by the fact of the actual monthly costs being greatly in access, on the whole, over these estimated—these dectored accounts.

I know what I am stating; and investigation will corroborate my assertion. During about the last eight months, the old and new forms of costs have been received from the mines. Only the new deceptive form has been laid before the shareholders—a reference to both will confirm my statements. There are many points in my letter of the 16th Oct. which the chairman has not deemed it accessary to refer to, and which, therefore, do not require any fairly worked, notwithstanding the fine accounts the chairman has inserted in his circular, I maintain that it is not fairly worked; and any person, who understands mining, by looking at the map at the office, will say I am right. City, Oct 31.

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SIR,-remarks the min be consineighbo safety to and other miner, in an econo is to see implementing attor have m dents, s quently kulked,

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Original Correspondence.

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MINING SPECULATION-HOME AND FOREIGN. Six, -Amongst the varied, scientific, and useful information contained in your Journal, I have always been puzzled to discover the wonderful

Sir.—Amongst the varied, scientific, and useful information contained in your Journal. I have always been puzzled to discover the wonderful cause of attraction, which has swallowed up such a vast amount of English capital in foreign mines; because, if foreign speculations repaid the outlay of capital, and gave handsome profits, it would not be at all wonderful that people would invest money where they could get the largest returns; but that people would continue to go on for a series of years, losing by the million, is wonderfully strange, and altogether beyond my comprehension. There is, undoubtedly, something very tempting in the idea of a gold mine; but it is not all gold that glitters, and the enormous sums of money expended in foreign mines must convince the most sanguine that their expectations have been "far fetched and dearly bought." There must, however, be something very attractive in foreign mines, or the public would not continue for years to run after a shadow, and neglect the substance, which might be found at home. It is true that, in the managing of affairs at home, boards of directors, secretaries, commissioners, &c., at large salaries, might be dispensed with, and that the carrying on of any establishment without a staff of officials would be a tame affair; but when people discover that they have paid too dear for their whistle, it is strange, indeed, that they continue to pay the piper. Why it is that people are so fond of losing money with their eyes open, in foreign mines, is a secret best known to themselves, and to a reflecting mind it appears quite inexplicable, unless on the principle of the old adage—" In for a penny, in for a pound," "going the whole hog," &c. Among the foreign wonders recently brought before the public, the Asturian Mining Company presents itself in a character somewhat motorious, inasmuch as it would appear, by reports in your Journal, and also from a letter in the last Number, by "An Idler in the Asturias," that the company in question have expended some 225,000l.,

Atter Maing Company 225,000 35,000 Injectal Brazillan 225,000 35,000 National Brazillan 150,000 20,000 Mexican Company 150,000 20,000 Mexican Company 150,000 20,000 Mexican Company 150,000 20,000 Mexican Company 150,000 National Brazillan 150,000 20,000 Mexican Company 150,000 National Brazillan 150,000 National Brazillan 150,000 New York National Nati

SAFETY FUSE.

Which, I trust, will neither be considered meddling nor uncalled for, as my only motive is to see my neighbours (the working miners) purson their avocations with all imaginable safety to themselves; and should the question be entertained by the agents and others, doubtless much good would result—not only to the working miner, in his greater freedom from accedental injury, but very greatly, in an economical point, to the mine adventurer, whose best interest certainly is to see the working miner, in his labour, best served with every necessary implement. Having so far prefaced my remarks. I am desirous of drawis to see the working miner, in his labour, best served with every necessary implement. Having so far prefaced my remarks, I am desirous of drawing attention to the reiterated complaints of late as to the introduction of certain defective "safety fuse" into numerous mines, to the use of which have mainly been attributed the causes of several most deplorable accidents, such as loss of sight, fracture and loss of limbs, and not unfrequently attended by fatal results. Now, these are facts which cannot be skulked, and they call loudly for the interference of the agent, whose discrimination should direct the choice of the best material, regardless of competition, and the petty saving thereto accruing. Not that I would for a moment encourage by an undue price to any manufacturer, but whose material had indisputably withstood the test of supersority, and let such take precedency. That many premature explosions originate in carelessness cannot be doubted, but more will inevitably occur from the "fuse" which, having failed in igniting the charge of powder, where the inconsiderate miner, in order to save himself the extra labour and annoyance of boring a fresh hole, proceeds to empty the one just missed, though it is of boring a fresh hole, proceeds to empty the one just missed, though it is admitted on all hands that this operation is fraught with danger. "Well so much for the pertinacity of the miner, who, knowing the danger, still persists in incurring it," may, perchance, be the hasty judgment passed on him; but a palliation may yet be pleaded for him, such as the following:—

Probably the hole was prepared for explosion at an early part of the core, which, being ineffective, ought to prevent his return to the place of working for at least six or eight hours, as there are many instances recorded where the charge has exploded after having lain inert for so many hours as above stated—consequently there must be an important loss of time, which the industrious miner endeavours to take advantage of, though at the risk of personal safety. Further, it is very evident that any pecuniary loss must eventually be sustained by the mine adventurer.

Having gone so far, I now entreat the superintendents and agents of mines to investigate narrowly into the origin of these complaints, and to patronise such manufacture as is only tested by its superiority. By so doing, I am deeply impressed that much prevention of accident will be the consequence, and the unpleasing imputation of indifference to the well being and comfort of the most deserving of the labouring classes would thereby never be established. I believe there are several establishments for the manufacture of the "safety fuse," but which, for the greater part, are variously depreciated. I forbear enumerating any of them, for so doing would have the appearance of invidiousness; and my only wish is to see patronage extended, independently of a selfish interest, to the most useful article.—Spectator: Redruth, Oct. 29.

THE SMELTER AND MINER-THE FLINTSHIRE ORE.

THE SMELTER AND MINER—THE FLINTSHIRE ORE.

Sirs.—The Flintshire ore is only bid for at most by four smelters, and very frequently not at all by one or two of the four mentioned, giving a very great advantage to smelters over miners. Again, they will dictate to miners, and say we will not bid for less than 10 tons, the rest we will buy by private treaty, where we shall have no competition, but take it at our own price. Miners! why stand this, when the course before you is so open and clear? You only have the right of saying, you offer your property on certain conditions, let the smelter bid or not. The Flintshire smelters may keep you under their thumb if you submit. Why not meet them fear-lessly and boldly, by taking the biddings of all the smelters in the kingdom, as by far the greater number of mines are now doing. If you will do this, as a smelter, I have reason to believe that you will have the full support of all the smelters out of Flintshire, and have their constant and fair biddings for all the ore you may, from time to time, have to offer.

Heny and Carron.

IRON AND CARBON.

SIR,—I am glad to notice that the discussion of a most interesting subject—viz.: the habitudes of iron with carbon—has been resumed by your talented correspondents, Mr. Mitchell and Mr. David Mushet. I have been expecting for some time that a close investigation into the compounds of iron and carbon would ultimately clear up much that has hitherto been regarded as mysterious and paradoxical in the working and properties of iron. Circumstances led me to entertain the idea, that in the compound termed "cinder," carbon, in the peculiar form of graphite, was frequently mistaken for silica; and that cinder in general was a compound of iron, oxygen, and carbon, in varying proportions. My attentiqu was once directed to a quantity of thin plates of iron, found near the bottom of the clamps, in which blackband iron ore had been caleined, at the Hirwain Iron-Works. The mode in which these plates had been formed appeared to be quite clear. The subject has been latterly recalled to my mind by the discovery of some very rich blackband in this valley, and I have satisfied myself that my theory was correct, by a few trifling experiments. Other occupations at present prevent my going on with these to such an extent as I consider would warrant me in publishing the results; but I hope soon to be in a position to do so. Having heard that some extraordinary beds of blackband iron ore have just been found near to Glasgow, I would feel obliged if you or any of your correspondents can give any information as to the extent of these recent discoveries.

T. H. Leighton.

Cum Amman, Oct. 30. IRON AND CARBON.

shield-bank at the control and the past been found more to to takepee, a would be past to the extent of these recent discoveries.

T. H. E. H. E

white. But I do not believe the objection is sound. If, for foundry iron, the hearth must be more shallow, the cinder may still be kept high; with forge iron, the very ground of the objection fails. That the flame forward is a lots of blast, there can be no question. I think there is nothing more serious than custom (and that is serious enough) in the way of an improvement. It is not long since I saw the high dam introduced by a Welsh ironmaster, who has for nearly half a century taken the lead in applying to his manufacture the improvements of science, and, I understood, with corresponding advantage of make. This I can assert from my own experience—that with infusible and refractory materials the Welsh process proves a total failure; whilst all difficulties vanish with the use of the other method; and I cannot doubt, both from observation and the theory, that it would in all cases increase the make of iron.

To carry further the explanation I last week suggested of the blisters upon steel, it is a possible supposition that the liberated oxygen, passing out and recombining with carbon in its passage, may, in addition to the other causes, have its escape impeded by the chill imparted to those lamina, where it has absorbed the last equivalent of carbon.

October 29.

David Musher.

STEAM-BOILERS—Mn. HORSLEY'S PATENT.

STEAM-BOILERS-MR. HORSLEY'S PATENT.

mina, where it has absorbed the last equivalent of carbon.

October 29.

STEAM-BOILERS—Mr. HORSLEY'S PATENT.

Sir,—I am glad to see Mr. John Horsley's specification; it is on the right principle. All chemical means to prevent deposit, by keeping the salts suspended in the boiler, are essentially erroneous, making but an exchange of evils, and often for the worse. I only hope Mr. Horsley may bring his processes to that plain routine absolutely necessary for the rough habits of those that will have to execute them. There are waters which Nature brings to the surface totally free from the salts which produce deposition; and unquestionably art, by the use of chemical re-agents, may purify any water to the same degree; and to perform this before the water enters the boiler is their only rational application; but it will be a great difficulty in ordinary use to umange the nice balance of saturation and precipitation. Ordinary workmen are the mere servants of necessity, and cannot be trusted with critical processes. A newspaper correspondent lately offered a suggestion, the fruit of his own experience, on the current smoke question. Stating what we all know, that a great part of the nuisance may be abated by attentive firing, he added it was his habit to make his fireman a weekly allowance, on the condition he should be answerable for all smoke fines. This gives a motive for that minute care which is irksome to a workman's habits. He prefers, when he is at it, throwing in plenty of coal to take its chance till the next time: the more he throws, the longer his interval. The "opaque smoke" which, if it baffied Legislative definition, is at least visible, and that in a moment is an immediate register of neglect; but it will be very difficult to impose such a ready check on any neglect of the delicate processes involved in Mr. Horsley's patent. I have every wish for his success, which indeed I may, as I should be materially assisted in processes of my own; and I may, therefore, the more remark on the greatest obstacle in

pursued up to about the year 1807, I believe." Many similar instances of perversion of evidence might be brought forward. I had indeed prepared a list of the most glaring; but this letter would be too much extended by their quotation—" Ex une disce connex?"

There is something singularly chameleon-like in the scheme itself. It appears to change its character continually, and to become every week more and more enveloped in a mist of pseudo-philanthrophy. The only communication in which Mr. Colwell has favoured us with specific details of his plan is that of July 25th, from which I extract the following explanation:—" Supposing the current of air to be passing from north to south, mixed, as it will of necessity be, with a portion of hydrogen and carbon; at the south end of such drift, and facing the draft, I would excavate beyond the present footway, so as to form a cell—the measurement of which is to be hereafter determined; the roof to be carried up beyond the level of such driftway—for instance, in the form of an umbrella—and the bottom to be carried below the level of the thill, like an umbrella—and the bottom to be carried below the level of the thill, like an umbrella—and the bottom to be carried below the level of the thill, like an umbrella inverted. This cell to be divided midway, if practicable, and bricked up again in front; but an aperture to be left the width of the drift in a line with the present roof, so as to catch the floating hydrogen riding upon the atmospheric air in its course, and a similar aperture in a line with the thill to the well beneath to catch the carbon—both of which by such means will, I apprehend, detach themselves from the pure air, and become lodged in the trap thus prepared for their reception; while the atmospheric air thus cleansed, and coming in contact with the wall between these apertures, will pass on to the adjoining drift. I propose that a similar cell should be made at the north end of another driftway, in which the current of air is propelled from the south," and so danger removed." "These foul air cells to be connected with one main, to be fixed in the side of the centre of the rolley way, to guard against damage from the falling in of the roof, or rising of the thill. The branch pipes to the foul air cells to be fitted with stop-cocks, similar to gas-fittings, so that few or many of them could be acted upon at one time. The upper branch to communicate with the highest point of each cell for the removal of hydrogen and other light bodies; and the lower branch to the lowest part of the cells for carbon—either of which dangerous elements, by means of an air-pump, &c., could, I apprehend, be removed at pleasure by the upcast without passing the furnace, regulated, as I before said, with

upper branch to communicate with the highest point of each cell for the removal of hydrogen and other light bodies; and the lower branch to the lowest part of the cells for carbon—either of which dangerous elements, by means of an air-pump, &c., could, I apprehend, be removed at pleasure by the upcast without passing the furnace, regulated, as I before said, with stop-cocks." The rationals of this scheme is expressed in the following assumptions from the same letter:—"I will now assume—I. That the carbureted hydrogen is lighter than atmospheric air, and, consequently, driven along the drifts on the top of the latter.—2. That carbonic acid is the heavier of the three; and, consequently, slowly propelled along the thill, or footway.—3. That the atmospheric air, of necessity, takes the didnesses and even if this could be accomplished, I verily believe it would eally abate, but not remedy, the evil."

I have stated these propositions in full, because I mean to deep them assertion, it will perhaps be necessary for me to produce some authority beyond my individual expo ience on which this denial is grounded. I therefore, select such as appear to me to put the matter in the plainest light:—"All gases, when under existing circumstances through one another, and form a uniform mixture, though their specific gravities may be very different, and chay may be kept externally as perfect reat. If, for example, two bottles be connected by an upright glass tube, 10 in. long, and 1-20th of an inch wide, the upper bottle being filled with hydrogen, nitrogen, binoxide of nitrogen, or common air, and the lower with common air, mtrogen, oxygen, or binoxide of nitrogen, and the lower with the marker as well, after a few hours, be found in the upper bottle; and after two or three days, both bottles will contain the two gases in the same proportion. (Dalton's Philosophical Magazine, vol. 24, p. 8). The same result was obtained by Berthollet (Mens. d'Areacil, vol. 2, p. 463) with a tube, 10 in. long, and one-fifth of an inch wide, placed

general rule, in minute portions from the whole of the exposed surfaces, are at the time of such extrication mixed immediately with the atmospheric curront. Few coal seams generating carbonic acid contain any large proportion of fire-damp; but there is always a greater or less quantity of the former present, as the product of combustion or respiration. A mixture of one part of carbonic acid, with five of atmospheric air, will extinguish flame; therefore, according to Mr. Colwell's theory, we should only have to hold a candle at the bottom of the air-coarse to produce its immediate extinction. The experiment is sufficiently easy; let it be tried. If the hypothesis of Mr. Colwell were true, no coal work could be carried on at all in the same manner as at present. In every part of the workings, in the slightest degree elevated above the level of the roof of the air-way, there would necessarily be a collection of carburetted hydrogen; while in every part below the level of the thill, or floor, of the air-way, would be a stratum of carbonic acid; so that throughout the whole mine there would be a middle stratum of air at the exact level of the air-way, and the workings to the rise or dip of the current become reservoirs, from which the gases would run over as fast as generated—the action of gravity tending constantly to equalise their level. The proposition is evidently absurd to a degree, and opposed to the simplest-facts of every-day experience. A candle taken into a return air-course indicates, by its long, dull, brown cap, the intimate mixture of carburetted hydroden, carbonic acid, and atmospheric sir, which, in ordinary circamstances, does not vary in the upper, middle, or bottom part of the air-way. I have known 70 yards of headway driven to the rise, in a seam evolving fire-damp, without any artificial means of rentilation at all, and that without the use of the safety-lamp. This would be impossible if the gases took the position due to their relative gravity.

It may be urged, that notwithstanding the tende

the position due to their relative gravity.

It may be urged, that notwithstanding the tendency of gases to diffuse themselves among each other, collections of fire-damp are found to exist in the tops of goaves, old workings, &c., in mines where there is no current to carry them off. To this I reply, that in all such cases the gas has either been produced from accidental causes, as a sudden evolution or change in the barometrical state of the atmosphere, or is naturally evolved faster than the tendency to diffusion can distribute it. In such cases change in the barometrical state of the atmosphere, or is naturally evolved faster than the tendency to diffusion can distribute it. In such cases there may be an influx of a highly explosive mixture from any of these old goaves, and this is the danger—to diminish which the efforts of inventors should be directed. At an examination of the goaves in Haswell Colliery, shortly after the explosion in 1844, "no gas was detected in any of the 14 goaves, even up to heights extending from 5 to 14 ft. above the top of the coal seam at the highest edges of the several goaves." This applies equally to the smaller collections of gas, which are sometimes found in holes, or undulations, of the roof, when out of contact with the air-course. If a glass jar of carburetted hydrogen is inverted in such a situation, in the course of a few hours the gas will have mixed itself with the atmosphere from below. In the one instance, there is a constant supply owing out from the roof to make up whatever loss may take place, and it, therefore, remains sensibly the same; in the other, a fresh supply is prevented by the glass, and the effect of diffusion is more appreciable.

The fact of explosions occurring at all, affords additional proof that currentsted hydrogen does not exist for any length of time in mines without affiliating likel throughout the aurrounding atmosphere. The gas instability will not support combustions in simple contact with the air, it will only burn as a flame; mr. it, introduce oxygen among its atome, and it becomes violently explosive.

We have dealt hithertow in the letter of 24th July—being the only, one containing any specific description of the improvements contemplated. This, Mr. Colwell has aince deemed it necessary to qualify in auch a manner as entirely to change the aspect of his scheme. In the letter of Aug. 22d, he is far more modes—"I am July usacre that the gases and the viver or blended together; and that they do not perfectly subside into layers, according with the specific gravity of each. Still I know their natural tendency to be as I have described; and that in some mines the carbor can be eatight by holding a jug near the bill, and all admit that the hydrogen preponderates nearest the roof; it, therefore, appears to me reasonable to expect that a great proportion of these flaat gases sould deach themselves from the atmospheric air, and become drifted into these cells. Let any one contrast even this with the fundamental assumptions quoted above, on which the whole scheme is founded, or with the rivid description of the "floating hydrogen riding on the atmospheric air in its course. I si it to be supposed, that when Mr. Colwell affirmed that the air would be sire "blended together?"—or imagined, that by taking away a portion of the "floating hydrogen riding on the atmospheric or in the interest the roof, and to pass, mixed with its variable proportion and present the current, has would be atmospheric column, moving at a rate of 3 ft. or 3 ft. par second against the breast-work, which is to turn the current into another course. If we try the experiment work there exists a way of escape, not meret by open, but with an increase colaries of the

mine where the expense of putting it together, and keeping it in operation, would not preclude all possibility of working the coal at a remunerative profit. The heaving of the thill or floor, the falling of the roof in large quantities, the falling in of the sides, and all the numerous accidents to which mines are liable, would render it impossible, at any reasonable cost, to keep a long system of pipes in repair, or gas-tight. All these accidents increase in number and extent as the coal is worked out. In the report on the explosion at Haswell Colliery, 1944, Messrs. Lyell and Faraday recommended the adoption of cast-iron pipes, to clear the goaves or old workings only. A select committee was appointed by the committee of the coal trade at Newcastle, to take into consideration, and report upon this plan. They found that, "to carry out at the Haswell Colliery the first plan proposed—that of conducting the gaseous contents of the goaves to the upcast shaft by means of cast-iron pipes, 12 in, in diameter, and ½ in, thick in the shell—would require rather more than 12 miles of pipes, and would cost, including the putting of the latter together, about 21,000l., if not considerably more—perhapseven double this sum, considering the difficulty of laying down such a length of pipes in the workings of a mine, and the unprecedented nature of the operation."—"It may likewise be apprehended, that to keep such long ranges of pipes in thorough repair and airtight, would not only be most troublesome and expensive, but scarcely, they believe, practicable." This, then, is the opinion of men well qualified to judge, and selected for their known experience and intimate knowledge of the subject, on the far less difficult and expensive application of pipes for the ventilating of goaves alone. In thus case, there would be main lines of pipes only, direct to the shaft, these lines would be stationary, and being once laid down, would merely require to be kept in repair. In Mr. Colwell's plan there must be rannifications throughout the

stall systems, in either of which it would be absolutely impossible to keep the gas cells facing the air-course, while the work was in progress.

It cannot be supposed that, in the production of their report, the coal trade committee were actuated by personni ill-will towards Messrs. Lysell and Faraday; but rather, that with the confidence of men who were conscious that the extent of their previous knowledge and experience rendered them perfectly competent to form an opinion; and with the most deliberate conviction of the impracticability of the system recommended, they objected to it as being unsuited to the end proposed. If in this instance they were actuated by an unworthy hostility to the propositions of persons not interested in the coal trade, I can only say, that it is contrary to all our previous experience; that heretofore they have always shown themselves ready rather to reward inventions than to condemn; and that the adoption of the latter course would be so obviously contrary to their own interest, that, at the same time as we assert such to have been their conduct, we leave a natural inference that they must, at that period, have been bereft of what is usually called "common sense."

I would remind Mr. Colwell, that a mere reiteration of the fact that he has laid his plan before her Majesty's Secretary of State for the Home Department, which he has already informed us of three several times, is no argument in its favour. Any schemer—the simplest or most ignorant—may do the same thing. Poor Sir George Grey! I have, no doubt there are a hundred Mr. C. Colwell's offering him advice or assistance at this present time; each believing, on his soul and conscience, that his individual scheme is the only one really applicable to the complete and entire removal of all danger in the working of coal mines.

Infinitely cool is the nonchainnee with which Mr. Colwell throws experience overboard. "The subject has been too long confined to one class of the scinnife world, who are avidently unable to keep page with these times of improvement." He expects no improvement from men whose incident have been fulled by practice; as the class of the ment of improvement is to be the confined of the province of th

fects of a system, we may as well blame the chart, or call for a new system of navigation, because a careless pilot runs the ship aground.

Of one thing I am convinced. The furious zeal of amateur ventilators will never be preductive of good. Useful inventions never spring from such sources. It is from my brother miners of England, or from scientific men, who will confine their suggestions within the limits of scientific inquiry, that improvement must come. It is on the caution, the watchfulness, and the efficient education of the former class, that the safety of the lives entrusted to their care must mainly depend. Deeply impressed, as I am, with the importance of this charge, I cannot be strongly urge upon their attention the truth, that however good may be the system of ventilation, however officient if perpetly carried out, the slightest relaxation of their exertions, or the simple deferring to the morrow what should be done to-day, may render the most skilled or scientific arrangements of no avail. Abecarne, Oct. 24.

ON THE GENERAL SYSTEM OF ATMOSPHERIC TRACTION.

ON THE GENERAL SYSTEM OF ATMOSPHERIC TRACTION.

Sir.,—Amongst other objections brought forward by Mr. Carr against the atmospheric principle of railway propulsion was one to the following effect—viz. that it was necessary the power exerted on the steam-piston must exceed the resistance on the air-piston at the end of the stroke of the air-pump—that all excess of power on the steam-piston during the first part of the stroke is, or would be, wasted, and, consequently, to adopt the expansive principle, instead of diminishing, would only increase that waste. I had fully expected that Mr. Baggs would have refuted such an absord objection, and can only account for the omission on the score of its being too ridiculously absurd to require a refutation; but as it would appear that the absurdity of Mr. Carr's conclusions has not been sufficiently apparent to preclude some of your scientific readers from concluding that because he is in the habit of making a "flourish of figures," he must necessarily be a competent authority on such questions, I feel it my duty, being interested in the satisfice, to ritreet the attention of those gentlemen to the errors referred to.—John Weston: Oct. 28.

PALL OF ARCHES ON THE EAST LANCASHIBE RAILWAY.—Mr. S. Meek, the resident engineer of this railway, in reference to the accident entised in the Journal, last week, says.—"I have examined the works, and find that the accident is not to be attributed to any fault in the axecution of the follow portion of the viaduct, but to the sub-contractors having, in the absence of authority, withdrawn the centres from come of the arches before the morter was properly set; the effect of the late heavy rains upon which has been to bring them down, together with others on each side of them. There has been no loss of life or accident to any person in connection with the fall of these arches."

Beglamanton of Lanc price Rayle and The Larch Commissioners of Woods.

RECLAMATION OF LAND FROM BYVEND.—The Lords Commissioners of Woods and Forests have served notices chaining the land takes in from the river by the Cork, Blackrock, and Passage Railway Company, and they have writen to say that a valuator is instructed to come over and rather the property for their lordships. The Corporation of Liverpool, within a few days, completed a compromise with the Commissioners of Woods and Forests, by consenting to pay to the credit of their lordships a sum of 160,000% for land they took in from the river.—Cark Constitution.

pay to the credit of their lordships a sum of 160,000l. for land they took in from the river.—Cord Constitution.

INDIA RIVER STRAN NAVIGATION.—The opening of the rivers of India to steam navigation is exciting a deep interest throughout the country; until railroads can be established, it is felt that the only way of opening our was Indian possessions, and rendering our late conquests available for commerce, is by means of steam communication on the Indias and its tributaries. The great cotton districts are comparatively lost to this centry, for want of reads to convey the produce to the shipping ports; and the only means at present within our reach is to adopt some sort of vessel suited to the shallow and changeable for some time before the public, some to be generally approved of—it was described by us some since aince at length. It may be remembered that a committee of gentlemen in London had associated themselves for the purpose of carrying out a comprehensive scheme on this principle, and had applied to bis scribers, and for a bonus in the event of the experiment proving successful. This application was supported by a petition from the Glasgow Chamber of Commerce, and we now allude to the subject again for the purpose of noticing a memorial from the Chamber of Commerce at Manchester, and also one from Aberdeen, signed by the principal merchants and manufactures of that city, who had formed themselves into a committee for the purpose of petitioning the India those in favour of the prayer of the London committee. The honour able directors will, no doubt, give the matter their most serious considerations of Great Britain.—Morning Chronicle.

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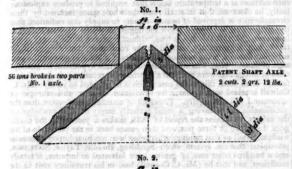
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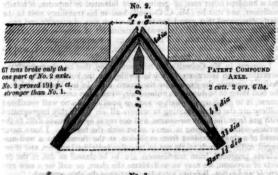
is by the great to add to within the great is as been was de-a compose of to the to subscessful the continuous at city, ing the concernation, the continuous continuo

Sca,—With reference to the charge made against the Shrewsbury and Birmingham directors by Mr. Geach, that in ordering the axles they Birminguam directors by Mr. Geach, that in ordering the axles they were actuated by improper motives, without regard to the public safety, I feel, in justice to myself and my co-directors, that I should publish the proofs by which we were guided in the selection of the axles to be used, and leave the public to judge for themselves how far this charge is founded on facts. If we had made choice of the weaker axle, we might justly the public to the public to the public to the weaker axle, we might justly the public to the weaker axle. on facts. If we had made choice of the weaker axis, we might placely have been charged with want of due regard for the public safety. When the patentee set forth the superiority of the compound axie, I recommended the committee not to try one man's iron and make against another's, but to test the principle, by having one solid axis made, and one compound axis from the same quality of iron, by the same workmen, heated in the same furnace with the same quality of coal, rolled in the same rolls to the same size, and at the same time. This was done, and they were sent to the Measus. Lloyds to be tested, from whom a certificate was returned of the result, which was as follows:—The solid one broke in two with a pressure of 76½ tons; the compound one fractured through only one-half of the hollow axle at 89½ tons, leaving the inner axle perfectly sound, which was afterwards broken by tension. Upon this proof the selection was made, and orders given out; after which Mr. Geach made his charges to our chairman, and also through the public newspapers. To further satisfy myself and the committee, I had the axle, No. 2, taken from the bulk, and drawn down to the same shape and size as the Patent Shaft one, which so altered its due proportion as to much weaken it; and, to prove this fact, I sent one out of the bulk without altering it from its due proportions; and the result fully shows the superiority of the compound principle. I am bound to say the Patent Shaft axle was as good as any solid axle can be made. All these samples, with the certificate of the test, can now be seen by any one who will call at our works and look at them.

Shrubbery Iron-Works, Wolverhampton. have been charged with want of due regard for the public safety. When

Shrubbery Iron-Works, Wolverhampton. 111







Scale-1-27th of an inch to the inch.

Some attempts having been made to cast discredit upon these proofs, we, the undersigned, have examined the samples of the tests of the compound axles, and the Patent Axle Tree Company's axles, and the certificates of Messrs. Lloyds, Fosters, and Co., who tested them, and we find that they fully bear out the statements made and published by Mr. G. B. Robert Bowman, Engineer.

E. T. WRIGHT, Engineer.

JOHN DIXON, Ironmaster.

JOSEPH FARMER, Iron Merchant.
PHILIP HART, Manager of Iron Works.

EXPERIMENTS ON BRIGG'S PATENT COMPOUND AXLE.



This axle was made in the peculiar form represented by diagram No. 1, in order to ascertain what effect the reduction of the axle in the centre would have on its strength, compared to an unreduced one, while under the different forces to which axles are subject when in use. Two courses of experiments were tried with this axle, the force applied being the impact of a large ram, 460 lbs., falling 11½ feet, the momentum of each blow was upwards of 5½ tons. A. A. shows the relative position of prop and ram in the first course of experiments—this position has relation to both ends (both ends were broken off, as shown in diagram No. 2); B. B., shows the relative position has relation to both onds (both ends were bent, as shown in diagram No. 2). During both courses of experiments—this position has relation to both onds (both ends were bent, as shown in diagram No. 2). During both courses of experiments the axle was loaded diagram No. 2). During both courses of experiments the axle was loaded in the centre, and on the extreme end. Diagram No. 2.



FIRST COURSE OF EXPERIMENTS ON ENDS G AND H. End G broke off at the fourteenth blow of the ram; the deflection previous to the last blow was 154°. This end was 15th less in diameter than end H. End H broke off at the filteenth blow of the ram; the deflection previous to the last blow was 148°. It appears, therefore, that in the strength of the two ends to resist impact, there is little or no difference—end H being 18th larger than end G. SECOND COURSE OF EXPERIMENTS ON ENDS E, F.

reduced axle being is. per cwt. dearer than the unreduced one, the saving in cost by using the reduced axle is but trifling.

Loss of strength: A most of the cost the reduced axie is our truing.

Loss of strength to resist impact

Loss of strength to resist transverse strain

Tolumber of strength to resist transverse strain

Loss of strength to resist torsion

42

Wolverhampton, Oct. 31. ROBERT BOWMAN, Engineer.

THORNEY CROFT'S PATENT RAILWAY TYRES AND RAILS.

RAILWAY TYRE.—Section No. 1, Half Size.



The middle, or wearing, part of this tyre is composed of chrystaline charcoal iron, the hardest and soundest iron made. The outward edges are made from a mixture of India charcoal pig with the toughest fibrous iron—the whole made upon an improved principle into one homogenous mass. These charcoal tyres are warranted better and more dumble than any tyres made in England.

RAILWAY TYRE.-SECTION No. 2, HALF SIZE.



The middle, or wearing, part of this tyre is composed of the best refined chrystaline puddled iron.

The outward edges are of the best No. 3 fibrous iron, and put together upon an improved principle into one homogenous mass.

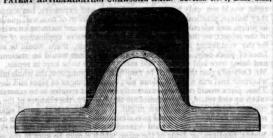
These tyres are warranted quite equal to any made in Staffordshire.

SECTION OF BRIGG'S PATENT COMPCUND AXLE. Scale inch to a foot parallel axle.

SECTION OF BRIGG'S PATENT COMPOUND AXLE,

Showing the extent to which the internal bar is walded solid at end, drawn down in the middle half an inch.

PATENT ANTILAMINATING CHARCOAL RAIL .- SECTION No. 1, HALF SIZE



Patent antilaminating rails, made from the same quality as the best

S iron.
The upper, or wearing, part of these two sections of rails is made from antilaminating charcoal iron, much harder than any other iron, perfectly free from lamina. The under, or fibrous, part from best No. 3 puddled iron.



Patent antilaminating rails, made from the same quality as the best Fig. iron.

Rails of the same sections are made from puddled iron, quite free from lamina in the wearing part, but soft and less durable than charcoal rails.

This principle is applicable to any kind of rails.

I beg to inform the railway public, that the machinery for testing the strength of axles, and the strength and soundness of the tyres, is now ready; and I offer it to the public without any charge for its use, to try any one's make of axles and tyres they may think proper. A machine has been designed, and is now making by Messrs. Fox, Henderson, and Co., for proving the quality and durability of tyres and rails by actual wear and tear, the same as when at work on a railway, at any speed you like. The name of the designer is, I trust, a sufficient guarantee for its efficiency; in fact, it will be so true a test, that it must prove satisfactory to the most fastidious mind; and, so soon as it is completed, it shall be offered to the pablic, on the same terms as the testing machine above-mentioned.

Shrubbery Iron- Works, Wolverhampton. G. B. THORNEYCROFT.

THE IRON TRADE OF AMERICA.

THE IRON TRADE OF AMERICA.

The Mount Savage Iron-Works—the largest in America—are now purchased by a new company, and will soon be ready to recommence operations. These works were started by an English company, some 15 years ago, for the purpose of manufacturing iron on the largest scale. They consist of three blast furnaces amongst them the largest in the United States, the blast of which is carried by a steam—engine erected at a cost of \$72,000, a puddling-france and rolling—mill large enough to employ 600 men, a foundry, fire-brick yard, store, 320 houses for workmen, nine miles of H railroad, besides eight or ten miles of plate mine roads, a very large real estate at Mount Savage, Camberland, comprising mines of iron and cond of various qualities, a superior clay for fire-brick, abundance of lime-stone, and building materials of all kinds. From the balance sheets of the old company, it appears that the works and property have cost over the sum of \$1,600,000. The whole concern was sold to the new company for a little over \$200,000. This company are now busy making arrangements to open the establishment for work as soon as the price of railroad iron shall be such as to admit of successful competition with the English article. At present, they say, "the high price of labour in this country renders it impossible to compete with the English manufacturer, who, deprived of a market in Europe by the suspension of all works of internal improvement on the continent, sends all his stock to America."

The Mount Savage establishment, when in operation, employs nearly 4000 men, mostly foreigners. These men are so banded together among themselves, and with the workmen in other establishments when in operation, employs nearly 4000 men, mostly foreigners. These men are so banded together among themselves, and with the workmen in other establishments, or on the canal, for one-half the amount.

A pretty general complaint of the inferior quality of English railroad iron is getting abroad; and, in one instance lately, the Cand

ABERDEEN RAILWAY.—Great delay has taken place in the opening of the line to Limpet Mill, within 12 miles of Aberdeen, from the refusal of the contractors to give up possession of the line, which was to have been opened for traffic on Tuesday. On that day, the directors, with their officers, endeavoured to take possession of the line, by removing the contractors and their waggons; but the latter, with a large body of navvies, resisted, demanding to be paid for the work done upon the contract. On the following day, the sheriff and police authorities proceeded to the line, and had an interview with the directors and contractors. The terms of the contract agreed on were produced, and the payment to the contractors of 8000% demanded; this not being complied with, a protest was taken against any further proceeding, and the sheriff granted an interdict.

LANGASHIERAND YORKSHIER RAILWAY.—The Reilway Complication of the contractors of the contractors.

the payment to the contractors of 8000l. demanded; this not being complied with, a protest was taken against any further proceeding, and the sheriff granted an interdict.

Langasher and Yorksher Railway.—The Railway Commissioners have authorised the opening of the Burnley branch of this railway, which is expected to take place in the course of a few days. This branch is nine miles in length, and connects the town of Burnley with the old Manchester and Leeds Railway. There are three tunnels and other heavy works on the new line.

Great Southers and Westers Railway.—The extension line of this railway to Cork was opened for public traffic on Monday.

Curtous Minnig Incident—the Arley Coal.—The miners who were employed in sinking to the Ince-hall Company's new Arley mine, of which we gave some particulars last week, in the course of their labours, while cutting through a white stone rock, 45 feet thick, opened a spring of salt water, which for a time threw up between 20 and 30 gallons per hour. The Preston Chronicles speculates as to the purposes for which this spring, the water of which was found exceedingly rich in mineral salts, might be available. Our contemporary will, however, find further conjecture on this point useless, as the spring, after gushing for some time, gradually diminished the quantity of its yield, and at length ceased altogether. It must, therefore, have flowed from some subterrancen reservoir of impregnated water, containing but a limited quantity, and which it has completely drained. We may mention, while on this subject, that the Ince-hall mines are held by some four or five of the most influential of our Liverpool merchants—a class of gentlemen who are not less remarkable for the discretion than for the spirit and energy with which they pursue any enterprise or undertaking in which they may embark. It as the result of a wise and thoughtful system of action that operations, at first deemed speculative, have led to the successful issue lately notified by the public prints. The Arley coal, as

the radiance which it will shed over their domestic retreats.

Use of Coloured Glasses to assist the View in Fogs.—The following curious observation is made by M. Lawini, of Turia, in a letter to the editor of L'Institut, at Paris. If it be verified, it may prove to be of importance to geodetical operations, as well as in observations at sea:—"When there is a fog between two corresponding stations, so that the one station can with difficulty be seen from the other, if the observer passes a coloured glass between his eye and the eye-piece of his telescope, the effect of the fog is very sensibly diminished, so that frequently the signals from the other rever plainly perceived, when, without the coloured glass, the station itself could not be seen. The different colours do not all produce this effect in the same degree. The rad seems the most proper for the experiment. Those who have good night prefer the dark red, those who are short-sighted like light red better. The explanation of this effect seems to depend upon the fact that the white colour of the fog strikes too powerfully upon the organ of sight, especially if the glass have a somewhat large field. On the contrary, by placing a coloured glass between the eye of the observer and the eye-glass of the instrument, the intensity of the light is much diministed by the interception of a part of the rays; the observer's eye is less wearied, suffers less, and consequently distinguishes better the outlines of the object observed."—Mechanics' Magazine.

for a torm of years, all the valuable VEINS of COAL lying under the EARM of CRESWELL, of about 350 acres, and comprising the best VEINS of ANTHRACITE COAL in the county. The above colliery has only been partially worked in the shallow coins many years back, before steam-power had come into general nace and is so situated has it can be opened at a small outlay, being on a branch of the Milford Haven, with may coal-yards, &c., already constructed, and a pit sunk within half a mile of the ship-ing place will command the whole of the property.—"A railroad at a very easy incline may be made at a comparatively small expense."

In the previous insections of this advertheenest, "Railway" was arroneously placed for Milford Haven, no line of that name being in existence. The South Waies Railway till skirt the property when the line now in progress is completted.

For further particulars apply to Mr. James Wilson, mineral surveyor and agent, Unstread, nothing the property when the line now in progress is completed.

THE FIRE ANNIHILATOR COMPANY—PHILLIPS'S
PATENT.—Mr. Phillips's INVENTION for EXTINGUISHING FIRE, supplies the READY MEANS of SAVING not only PROPERTY, but LIFE, from that destructive element. The MACHINES SOLD, according to the scale of prices below, are available for Houses, Ships, Manufactories, and Warehouses, as well as for Farming Property-vis., Outbuildings, and Stacks of Hay or Corn.
The vapour given out from the machines is producible at pleasure, in a few seconds after any fire has been discovered, and extinguishes not only fite flaunes arising from the ignited materials of property in general, but also has the same power-over those caused by Tax, Turpentine, Oil, Sugar, and other highly inflammable substances upon which, when in combustion, water has no effect.
STATIONARY MACHINES, fixed for the protection of Mamions, Manufactories, Theatres, Dockyards, and other large premises.
Applications to be addressed to the secretary of the company, No. 105, Leadenhalt-street, London.
Size of Machine. Price, including I charge.

JUCKE'S PATENT SMOKE-CONSUMING FURNACE.

—The above is in SUCCESSFUL OPERATION at the under-usentioned places—
viz.: Three at the Majosty Mint; three at the Artesian Wells, Trafajara-square; one at the Tower; two at the Thames Tounel; 10 at Price's Candle Company; five at Messrs. Craven and Lucas's, sugar refiners, and at the following broweries:—10 at Messrs. Thomes, Hanbury, and Co.'s; six at Messrs. Ellioft and Co.'s; one at Messrs. Barclay, Perkins, and Co.'s; one at Messrs. Thomes and Son's. Upwards of 40 are in use at different steam-mills. It is also in operation in a rerarberatory france at the Mint, and is particularly adapted for smelting or heating metals or other materials. The entire consumption of smoke, great economy of fiel, and the certainty of a detady fire, which can be regulated at pleasure, and made of the refuse or screenings of coals, reader this patent invaluable for all manufacturing purposes. It is admirably adapted for steam-boats and locomotive engines, where coke or antiraction coal is now used.

The proprietors are willing to SELL the PATENT RIGHT, for any city, town, diffrig. or country, or to any steam-boat or railway company; also for Scotland, Ireland, the colonies, or Holland. The French patent right is sold, and working well in France, and on board the French frigate, Prometheus.

For terms to manufacture the patent apply to Messrs. Quilter, Ball, Jay, and Crossby, 87, Coleman-street, London. Furnaces can be supplied by the following engineers, who are already ilemented to manufacture the patent refer the patent; Grove, Guildorfestreet, Southwark; John Wood, and Co., Sowerby-bridge, Halifax; and John Gray, and Co., Rhodee Iren-Works, Chester. UCKE'S PATENT SMOKE-CONSUMING FURNACE

ELECTRIC TRLEGRAPHS IN FRANCE.—The establishment of several impor-tant lines of electric telegraphs in France, for the use of the Government and the public, has lately been referred to a committee of 15 members of the Le-gislative Assembly. This committee has songht the advice and opinion of Mr. Edward Highton, C.E., telegraphic engineer to the London and North-Western Railway, as to the plans and arrangements best suited for such purposes.

FLUCTUATIONS IN THE STOCK AND SHARE MARKET,

Stocks and Shares.	Share.		Paid.	P	r. Oct.	1. I	lighest.	4	Lowest.	P	Nov.
Consols			-		92	****	931		914		93 4
Exchequer Bills	118974	••	OTO:	****	40s pm	h	47spm		38s pm		42s-45 pm.
Brighton	. Stock	1	£100	****	£701		£781	**	67		73
Birmingham and Oxford											
Caledonian											
Eastern Counties											7.
Great Northern							78				7
Great Western											
London and North-Western									1048		
Midland									431	**	48
North Staffordshire							10				91
South-Eastern									16		18
South-Western	Stock		50		321		33				
York, Newcastle, & Berwick	Stock		25		18		184		17	60	17#
York and North Midland .	. 50		50		21		22		181		20
Boulogne and Amiens Northern of France	. 20		20		6	****	6		5	**	58
Northern of France	. 20	-	14 8	30.05	119	-	11#		11		114
East Indian	. 20		34	****	38		31	200	35		3.
Great Indian Peninsula											7.0
It will be observed that,											Process and the

ted during several weeks, the range of Consols has not exceeded if per cent. shares, however, the fluctuations have even exceeded their ordinary force, the tinstances being the Great Western, the North-Western, the South-Western, and the latter case being equal to upwards of 18 p. ct.—Times.

CORNISH STEAM-ENGINES.

[Abstract from Browne's Cornish Engine Reporter, from Sept. 20 to October 23. 1	849.7
PUMPING-ENGINES.	-10.3
Kumber reported Average load per square inch on the piston, in lbs. Average number of strokes per minute Gallons of water drawn per minute Average days of 21 engines—being million lbs. lifted 1 foot high, by the consump-	12·8 5·1 5857
tion of 1 cwt. of coals Actual here power employed per minute Average consumption of coals per horse-power per hour, in lhs.	6347 1102-9 4-9
Number reported	20
Number of kibbles drawn Average depth of drawing, in fathoms. Average number of horse-whim kibbles drawn the average depth, by consuming	55,681 1 3 8·2
1 cwt. of coals	42.2
Average duty of 18 engines, as above	16.9
Rumber reported STAMPS.	377
Average number of strokes per minute Average duty of 5 engines, as above. Actual horse-power employed	13:9 39:6 114:9
PUMPING-ENGINES DOING RIGHEST DUTY.	13.5
Par Consels 80-inch single Millions Fowey Consols 80-inch single 60-inch single	95·5 98·1 88·5
Par Consols	84-6
Trelawny	82·2 81·0 78·5 70·7
CHARLEST AND	
Par Consols 94 & 13-inch Sims's combined Millions Fower Consols 22-inch double Par Consols 92-inch double Par Consols 24-inch single Great Pelguoth 22-inch double STAMPING-ENGINSA 25-inch double 25-inch double	32·1 25·7 21·7 19·3 16·8
Great Polgooth S-inch double Millions South Caradon 26-inch single Tamar 30-inch single Great Polgooth 24-inch double	52·3 ·48·6 ·45·4 34·0

COAL MARKET, LONDON.

FRICE OF COLLS FEE TON AT THE CLOSE OF THE MARKET.

(ONDAY.—Buddle's West Hartley 16—Carra Harrley 16—Chester Main 16—East
air's Main 14 9—Hasting's Hartley 16—Holywell 16 6—Rorth Percy Harrley 16—da 16 9—Hotspur 16 6—Morricon 17 3—Percy 17—Riddell 17 3—Eden Main 17 6,
9, and 18—Lambton Primrose 17 9—Bell 17 9—Bellmort 18—Braddyll 18 6—Hetton
-Haswell 19—Lambton 18 6—Russell's Hetton 16 6—Stewart's 19—Washington 16 6
Whitwell 17 6—Heugh Hall 17 3 and 17 6—Harlepool 19—Kelloe 18 6—South Kelloe —Whitwell 17 6—Heugh Hall 17 3 and 17 6—Hartlepool 19—Kellee 18 6—South Kelloe 17 and 17 3—South Hartlepool 17 6—Whitworth 15 9—Adolaids Tees 18 6—Brown's Deanery 17 9—Cowndon Tees 17 6—St. Helen's Tees 16 6—Tees 19—Birchgrowe Grajeols 26 6—Cowpen Hartley 16—Derwentwater Hartley 16—Hartley 15 6—Howard's West Hartley Neberton 16—Nixon's Merthyr and Cardiff 21 6—Sidney's Hartley 16—Ships at market, 405; sold, 116.

as market, 405; sold, 116.

WEDNESDAY.—Baddle's West Hartley 15 6—Carr's Hartley 15 6—Holywell 16 to 16 6—North Percy Hartley 15—Old Tantield 13 9—Tantield Moor Butes 14—West Hartley 15 6—Wissman 16—Wall's—Rad Gossforth 16 9—Hedley 17—Morrison 17 3—Percy 16 9—Hesselden 16 9—Lambton 18—Russell's Hetton 18—Whitevell 17 3—Gaussp 17 6—Heugh Hall 17—Hartlepool 18 6—Maclean's Tess 17—Pease's West 14 9—Sunth Durham 17 6—Tess 18 6—Antiractic 20—Anthractic (through and through) 16—Birchgrove Graigeta C6—Cowpen Hartley 18 6—Dereventwater Hartley 15 6—Nixon's Merthyr and Cardiff 21—Ships at market, 410; sold, 77.

11.—Stips et market, 410; noid, 77.

FRIDAY.—Bate's West Hartley 15—Buddle's West Hartley 15 3—Carr's Hartley 15 3—Chesser Main its—Hasting's Hartley 15 3—North Percy Hartley 16—Ord's Redheugh, 6—Rawnsworth West Hartley 14 9—Smith's Pontop 13—Tanfield Moor Bute's 14—Townley 16—Walker Primres 14—West Hartley 15 6—Westerton Hartley 13 9—Wylam 16—Walk's End Bowiske and Ca. 17—Hilda 16 3—Northumber and 16 3—Percy 16 6—Zeden Main 17 6—Belmont 18—Braddyll 18—Hetton 16 6—Lawwell 18 9—Lumiey 17—Lambton 19—Pemberton 17 3—Stnart's 18 6—Heugh Hall 17—Hartleyool 18 6—Kellos 18—South Hartleyool 17 6 West Hetton 17—Whitworth 15 6 Michaelm's Tees 17—Toes 18 6—Anthractic 20—Anthractic Through 16—Through 16—Mackenn's Tees 17—Company Hartley 16 3—Howard's Methy and Cardin's 31—Hisca Rock Vein 20—Nachy's Martley 16 3—Hisca Rock Vein 20—Hiscay's Eartley 16 3—Ships at market, 246; seld, 62.

OOAL MINES IN PEMBROKESHIRE.—TO BE LET, FOUND, on THESDAY last, near the CUSTOM-HOUSE, a for a form of years, all the valuable VEINS of COAL lying under the TARM of MANUSCRIPT FRAGMENT, supposed in the control of the POUND, on TUESDAY last, near the CUSTOM-HOUSE, it MANUSCRIPT FRAGELENT, supposed to have been intended to FORM PART of the ADDERS on the O'ENING of the COAL EXCHANGE. It runs thus "It is with perfound regret we feel called upon to allude to the known defects in Vestilating these Mines of Wealth, and the continual destruction of human life consequent upon its production; but it will be no less pleasing to Her Majesty, than to your Royal Highness, to receive our solemn searances that the long-prevailing consideration of elsi-interest is abandoned. Every care and attention to the labouring Miners will henceforth be bestowed upon them, and the present advisers of Her Majesty may rely on the support and cooperation of the Colliery Proprietors generally in facilitating a New Code of Laws, so necessary is this branch of our commerce." The document at his parts in much damaged, and has evidently been transpled upon! It will be returned to its owner, upon a proof of his right to it, by "A. B. C." Post-office, Belvidere-place, Southwark.

TOSEPH DEELEY, of the LONDON and NEWPORT IRON-WORKS, NEWPORT, MORMOUTHSHIRE, respectfully recommends to the notice of the public his PATENT FOUNDRY FURNACE, which has been effectually tested, and is now in constant use at the above works, where it may be inspected by all persons interested. This furnace operates without the six of any motive-power to imperit he air. An immense saving is the consequence, both in oracting and working, one third of the coke usually required is more than sufficient; a loss of only 29 lbs. to the no being sustained in smalling.

The IRON MELTED in this furnace also undergoes an extraordinary improvement in quality.

In quality.

SCOTCH PIG and SCRAP are returned equal to the best cold-blast in point of strength, and capable of being chipped or filed with the greatest facility. FOUNDRIES USING the FUENACE may exist in the most densely populated cities, without causing the least nuisance—all smoke, dust, and noise being entirely avoided. The FOREIGN PATENT RIGHTS of the above are FOR DISPOSAL, affording capitalists the most favourable opportunity for profitable investment.

APPLY TO THE PATENTER AS ABOVE.

DATENT IMPROVEMENTS IN CHRONOMETERS,

E. J. DENT, 82, Strand; 33, Cockspur-street; 34, Royal Exchange (clock tower area),
Watch and Clock Maker, BY APPOINTMENT, to the Queen and his Royal Highness
Prince Albert, begs to acquaint the public, that the manufacture of his chronometers,
watches, and clocks, is secured by hirroe separate patentar, respectively granted in 1836,
1840, 1842. Silver lever watches, is welled in four holes, 6 gs. each; in gold cases, from
£8 to £10 extra. Gold horizontal watches, with gold dials, from £gs., to 12 gs. each.

DENT'S PATENT DPLIEDOSCOPE.

DENT'S PATENT DIPLIEDOSCOPE, or Meridian Instrument, is now ready for delivery.—Pamphlets containing a description and directions for its use is. each, but to customers gratis.

And directions for its use is, each, but to customers grass.

TEAM TO INDIA AND CHINA, year EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY GOOD ASSENGERS are RECEIVE GOODS and PARCELS for the ABOVE POR'S by their steamers—satting from Southampton on the 30th of every month; and from Sous on or about the 10th of the month, to Maita, these to Alexandria by her Majesty's steamers, and from Snez by the Honourable East India Company's steamers.

MEDITERRANEAN.—MADRA—On the 30th of every month. Constrantinople—On the 30th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadis, and Gibraltar, on the 7th 17th, and 7th of the month.

Tor plans of the vessels, rates of passage-money, and to secure passages and ship cargo-

For plans of the ressels, rates of passage-money, and to secure passages and ship cargo-apply at the company's offices, No. 122, Leadenhall-street, London; and 57, High-street-South-market.

THE PILOT STEAM-TOWING AND SHIP RESCUE

Capital £100,000, in 20,000 shares, of £5 each, all paid up, with power to increase.

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DWARD LOUIS, EAS, B. JOHN WOOD TWEE

John Bulley, Esq., Lipyd's agent, Plymouth.

John Collier, Esq., Lipyd's agent, Plymouth.

MANAGER—Walter Raymond, Esq., Albion-square, Dalston.

Bark, 21, Lombard-street.

Sollerrons—Mesars, Birch and Bramah, 6, Great Winchester-street.

SECRETARY—H. T. Northeroft, 15, Old Jewry Chambers.

The projectors of this company are now able to announce, that they have received the almost unanimous support of the principal shipowaers and others connected with the commerce of the port of London.

Those who desire, on principles of philanthropy, to further this great national undertaking, may do so by donations to a fund to be set apart for the equipment of the lifeboat service—a statement of which will be annually published.

PROSPECTUS.

In the formation of the company, the directors have been anxious to avoid the liabili-attached to shareholders in companies whose capital is raised in large shares by two-more calls; they will, therefore, with the least possible delay, apply for an Act of Parli-ment, limiting each individual shareholder's liability to the number of shares held at the sum actually subscribed.

more can't new year, instruction, which are seen goestor can't year, and the sum actually subscribed.

This calculated that there are upwards of 6000 British vessels, and between 3000 and 4000 foreign vessels, with cargoes, exclusive of colliers and fishing ensecks, arriving armally in the port of London; three-bournes of which, it may be safely asserted, would employ steam-tugs, if an uniform and commissal system of towing were which there is not only some 30 tags, varying from 30 to 120 horse power. Altering to each size 13, 100 peace gas must be made for the property of the steam of the steam

improved system would realize a handsome dividend by the difference of working expenditure alone.

In the construction of their vessels and engines this company will avoid the errors which have been committed by their predecessors, in supposing anything, whether efficiently and durably built or otherwise, would do for a steam-tug, or that a vessel for towing purposes must necessarily be heavy—a circumstance which, for various reasons, is rather an evil than a benefit. All the latest improvements which can be made available will be adopted, both in form and construction; and, on this point alone, it can be satisfactorily proved that a very considerable saving in coals, oil, and wear and tear, will be effected. It has been ascertained, beyond doubt, that this class of vessels, when efficiently constructed, can remain under weigh when ships cannot ride at their anchors; and the time at which steam-power is of the utmost importance to a ship is in tempestuous weather, when also is placed in narrow channels, with dangerous ands or rocks to leavard; at such periods a powerful steam-tug is enabled to extricate the ship from her critical position, and, from the very nature of the service, to realize a large sum of money on account of salvage. Those vessels tationed at the entrance of the Thames, and upon the coast, will be fitted with life-boats, Manby's mortar, and other necessary gar, enabling them to render officient and in case of shipwreck, as well in saving human life as in the preservation of property.

will be fitted with life-boats, Manby's mortar, and other necessary goar, enabling them or render efficient aid in case of shipwreek, as well in saving human life as in the preservation of property.

With a view to secure efficient officers and men, it is proposed that the masters and first nates shall be selected from the Cinque Ports and Triaty Pilots; the crews from the nost experienced and steady men in the several localities where the vessels are stationed. Information has been received from some of the old and highly respectable inhabitants of Deal, Dartmouth, Rannegate, Harwich, and Sheerness, well acquainted with nantical flairs, which is fully corroborated by the agents for Lloyds, resident there, that if two overful well equipped steam-tugs were stationed at each place, they would save many vers and man property, as well as realized large profit on the capital employed. Although tyresent these, and many other English harbours, are unprovided with steam-tug over, it is confidently asserted that such vessels would find immediate and profitable employment.

The inhabitants of eac parts in the English Channel, or on the East Coast, who are de-

employment.

The inhabitants of sea ports in the English Channel, or on the East Coast, who are desirous of having the company's vassels stationed there, and which ports possess facilities for the repair of vessels, or a trade to support them, will be furnished with the required number, on their subscribing for shares in the company's stock in such amount as may strons of having the company's vessels actioned titler, and which post possess actions for the repaired mumber, on their subscribing for shares in the company's stock in such amount as may be agreed upon; and the shipbuilders in such ports will have a preference in building tugs for those stations, taking a portion of their accounts in shares of the company's such an arrangement having been readily acceded to by builders and engineers in the port of London. An important feature in the construction of this company's vessels its, that in cases of energency, they will be able to carry and work a heavy powerful armament, or, when required, to form a brigade of gunboats, propelled by steam-power. They will also be fitted to receive passengers from ships in distress.

The company's charges will be as low as possible, consistent with a moderate remunerating profit; and, in cases of dispute with owners or masters respecting hire for towage, claims for salvage, or other services, the company isnost itself to refer to the decision of a magistrate, or to the arbitration of third paries.

This undertaking has been submitted to the Right Honourable the Lords of the Admirstly, from whom a communication has been received, expressing the satisfaction their lordships feel in knowing the company's wessels will be so constructed as to render them serviceable for purposes of defence in case of energency; and there can be little doubt, that, viewed as a nationally beneficial undertaking, their lordships will recommend her Majesty's Government to extend towards this company's terromage and support.

Application for shares to be made to fire C. Price, and Co., 2, King William-street, and the London and County Bank, 2 lower; and in the benefits of the Combard-street, the company's bankers; and, in the oscility, to Messra. Cox, Cobboid, and Co., Harwich; the National and Previscals Bank Yarmouth, Ramagale, and Darhmouth; the London and County Bank, Dover; and Messra. Harris and Co., Plynouth; who will give a receips for the sum paid, w

DICKFORD'S PATENT SAFETY FUSE.—The Patentees of the Original Agents, Railway Contractors, and all persons conserved in Busting Operation, that, for the purpose of protecting the public in the use of a genuine article, the PATENT SAFETY FUSE has not a thread wrought into its contre, which being putent right, in full by destinguishes of from all santanions, and casures the continuity of the gampowder. The Safety Fuse is now protected by a Second Patent, and manufactured by greatly ing proved machinery.

BICKFORD, SMITH, & DAVEY, Camborns, Organilly

WIRE ROPE.—The Undersigned beg to inform the public, that they have become SOLE LICENSEES of M. ANDREW SMITH, he the HANUKACTURE and SALE of the PATERT WIRE ROPE; and having fitted their premises with his very superior improved machinery, have only to assure those who may your filem with their orders, that the same care and attention shall salways be bestowed which, they have reason to believe, has secured them such general support.

LIGHTNING CONDUCTORS, SIGNAL CORD, and SASH LINE, always in stock TU Patent Wire Rope Works, No. 20, High-street, Wapping, London.

OILS.—BROTHERTON & CO. beg to call the attention of all parties EMPLOYING STEAM POWER to their PATENT PURIFIED OILS, for the economical working of STEAM-ENGINES and MACHINERY and BURNING IN LAMPS. The adoption of its use erfects a saving of 25 per cent. over any other all, and its properties are such as to greatly preserve machinery bearings.

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NDURATED AND IMPERVIOUS STONE, CHALK, &c. — AGENTS, with capital, are WANTED in all TOWNS to SUPPLY (under and Foreign Patents) the great demand for HUTCHISONISED MATERIALS—granite, impervious to moisture, vernin, &c.; the cheapest and most durable buildings, hydraulic, paving, monumental and decorative work.—The profits are

140, Strand, London; or Tunbridge Wells, Kent, and Caon, Normandy, straining amount of the Co., J., London; or Tunbridge Wells, Kent, and Caon, Normandy, straining after, induces, and capital at command.

N.B.—Houses cured of damp. The produce of soft stone quarries, chalk, plaster of Paris, wood, pasteboard, and all absorbent materials indurated to resist frost, versain, &c.

LICENCES GRANTED.

AGENTS WANTED IN DEVON, CORNWALL, AND NORTH AND SOUTH WALES.

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Capital £100,000, in shares of 20s. each, to be paid in full on alloins ant—bearing a guaranteed interest of 5 per cent. (treespective of further dividends) upon the paid-up capital. To shareholders this ecorporation offers an investment totally fees from risk, with a valuable property and increasing source of dividend, such as few undertakings have ever been able to command; white the anall amount of the shares, whilly paid, will enable persons in every grade of society to participate in the advantages, without the annoyance of any future call.

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W. YATES PEEL, Esq., Tamworth.
FREDERICK A. PEEL, Esq., Dosthill Lodge, Warwickshire,

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Surgeons—Pend Charles Crane, Esq., M.E.C.S., Leicester-square.

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Messrs. Currie and Co., 29, Cornhill; Commercial Bank of London, Lothbury.

Mosers, Currie and Co., 29, Cornains; Commercial Said of Science, Solidary and Chappie, Esq., 70 A, Aldermanbury,

MARINE DEPARTMENT—Onderwriter; Mr. John Powis, Member of Lloyd's.

LIFE DEPARTMENT—Actuary: Mr. Alfred Burt.

PIRE DEPARTMENT—Superintendent: Mr. John Nelson.

FIRE DEPARTMENT—Superintendent: Mr. John Melson.

SUSVETOR.

George Moody Longmore, Esq.

Twenty-five themsand shares, representing one-fourth of the whole capital of this corporation, having been anberthed for, and the lackners having searched the Deed of Scitterment, which has been duly registered pursuant to the Act of Parliament, 7 and a We., then, 110, the remaining lakes are being issued, predvence being given to ageits, method in the reference, and dounty surveyors, but applications will be received from their position to advance the object of the score proceeding search of the managing director, 31, Cornhill; John Golding, Warnford-court, Thomas Bayley, Warnford-court, and Turner, Brothers, Throgemorton-street, London, seek and sharebrokers; and to James Lane, mine and share agent, 94, 60d Broad-street London.

Prospectuaes, and every further information, may be obtained from the actuary, at the office of the society, 21, Cornhill; Londan; or at the efficies of the agents to the society.

Local Agencies are formed in Wates, Cornecall, and in the principal Towns of the United Kingdom.

Persons desirous of being appointed signate are requested to apply personally, or by letter, to the managing director,

"I He advertisement of this assurance cumpany, on the 6th linst, we incorrectly inserted the name of Mr. Matthew French Wagstaffe, so one of the medical officers—having been previously requested by the actuary to omit it.—E. M. J.

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ectfully requested to the supe-of those annexed, over those hitherto in use.